

*California Department of Transportation
Division of Maintenance*

Structure Maintenance and Investigations

B_{RIDGE}

I_{NSPECTION}

R_{ECORDS}

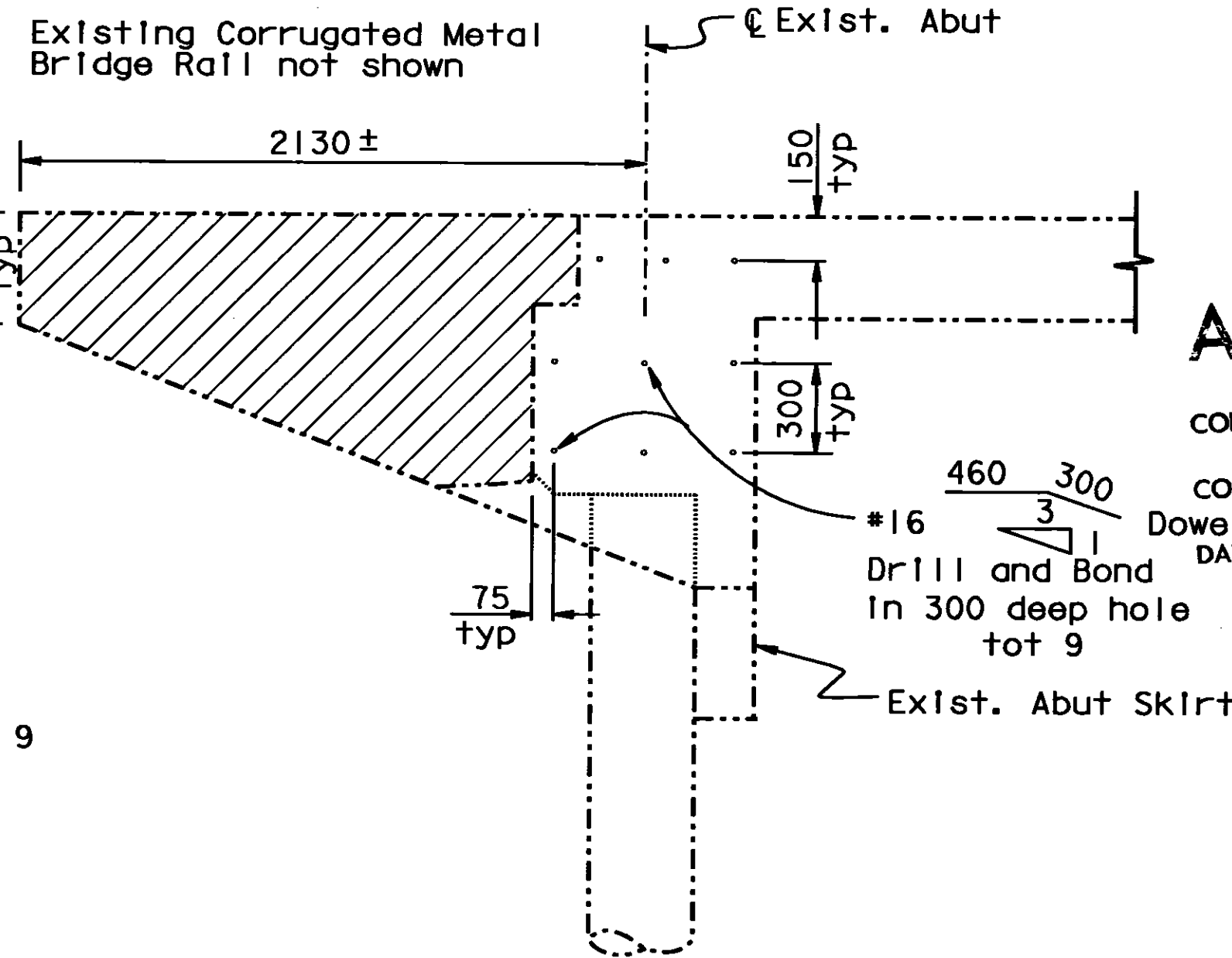
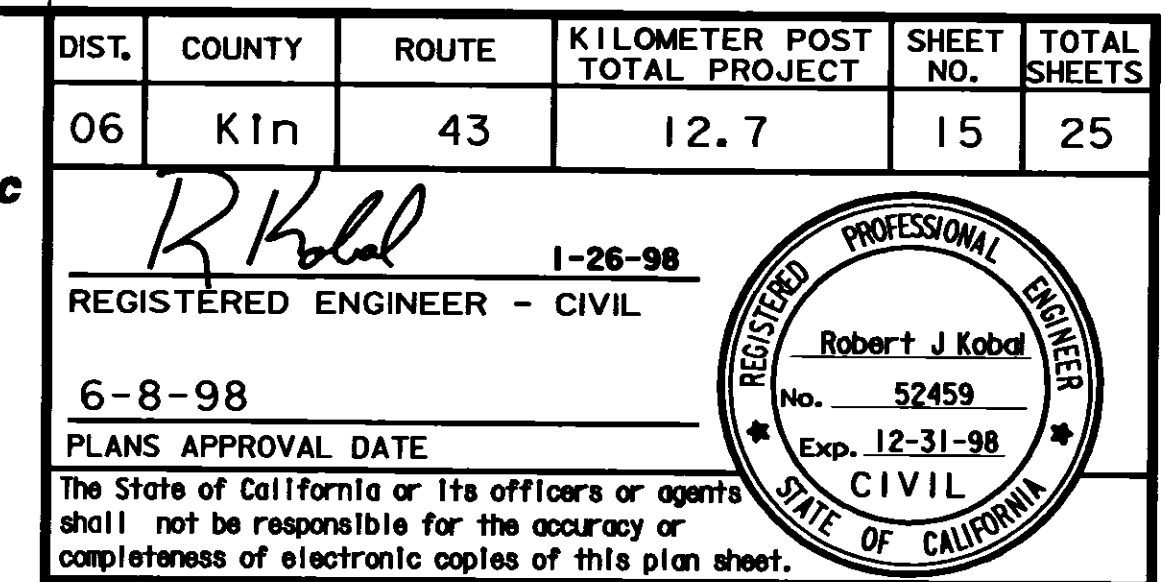
I_{NFORMATION}

S_{YSTEM}

The requested documents have been generated by BIRIS.

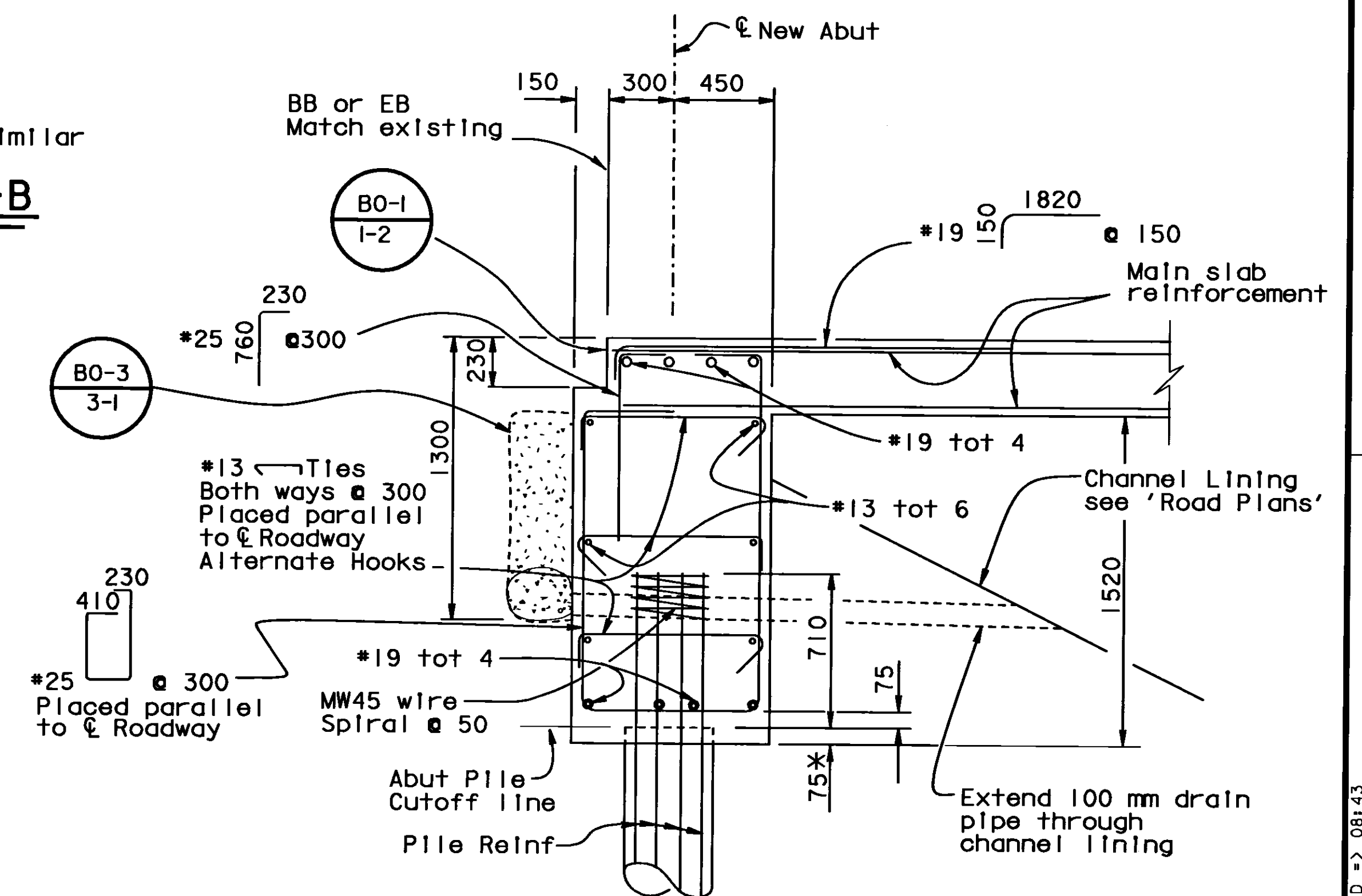
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Records for “Confidential” bridges may only be released outside the Department of Transportation upon execution of a confidentiality agreement.



DATE 3-22-99
NCG 12-13-99

1 : 20



* 75 embedment for P/C P/S Concrete Pile
125 embedment for CISS Concrete Pile

1: 20

NOTE:
THE CONTRACTOR SHALL VERIFY ALL
CONTROLLING FIELD DIMENSIONS
BEFORE ORDERING OR FABRICATING
ANY MATERIAL.

ALL DIMENSIONS ARE IN
MILLIMETERS UNLESS OTHERWISE SHOWN



1: 50

DESIGN	BY Lori Ewens	CHECKED Hector Romero
DETAILS	BY Janie Chlubna	CHECKED Hector Romero
QUANTITIES	BY Vincent I Gastoni	CHECKED Beau Trinh

**STATE OF
CALIFORNIA
DEPARTMENT OF TRANSPORTATION**

DIVISION OF STRUCTURES STRUCTURE DESIGN 3

BRIDGE NO.
45-0053
KILOMETER POST
12.7

EAST BRANCH CROSS CREEK (WIDEN) ABUTMENT DETAILS

STRUCTURES DESIGN DETAIL SHEET (METRIC) (REV. 7/29/97)

ORIGINAL SCALE IN MILLIMETERS
FOR REDUCED PLANS

CU 06
EA 35662

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FILE => adabt01_10084115
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DISREGARD PRINTS BEARING
EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY)

REVISION DATES (PRELIMINARY STAGE ONE)							
07	10-21-07	10-25-07	10-27-07	11-3-07	11-24-07	11-25-07	1-2-08

SHEET	OF
7	17



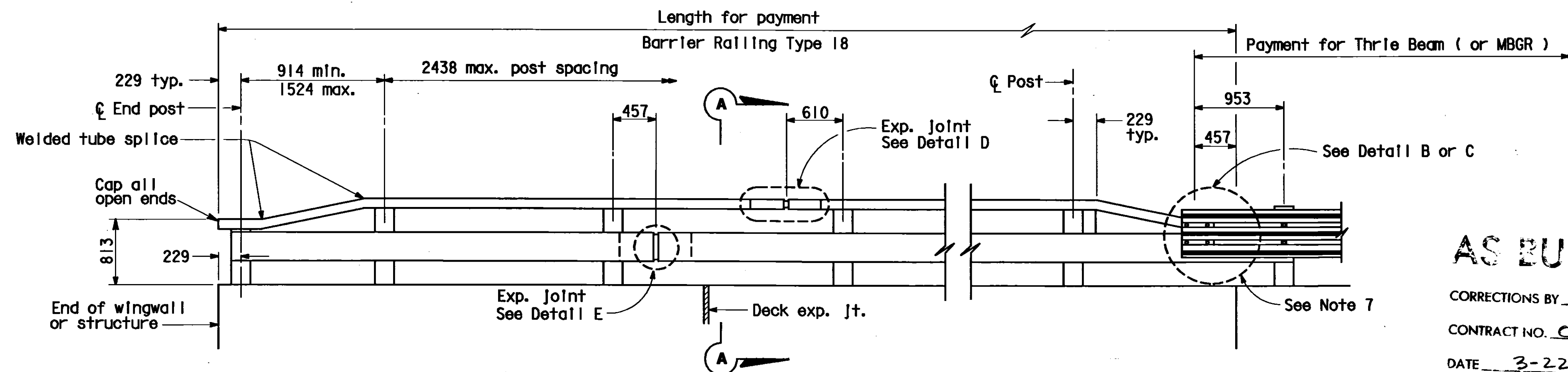
DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	KIn	43	12.7	20	25

R. K. K. K.
1-26-98
REGISTERED ENGINEER - CIVIL

6-8-98
PLANS APPROVAL DATE

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Robert J. Kopal
No. 52459
Exp. 12-31-98
CIVIL
STATE OF CALIFORNIA



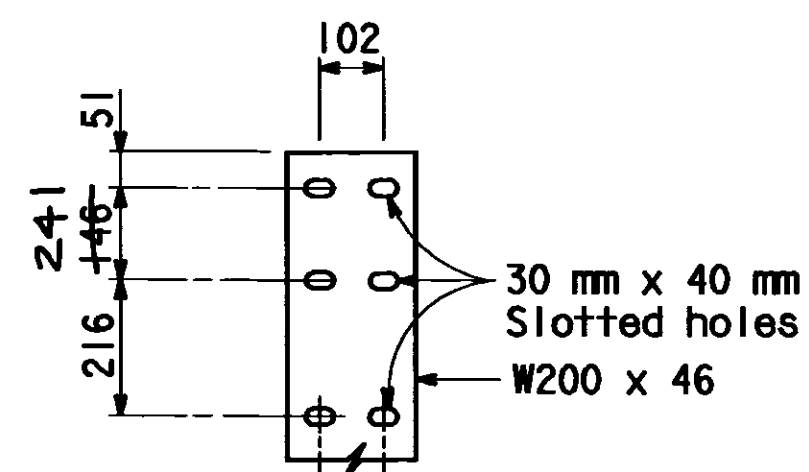
RAIL ELEVATION

AS BUILT

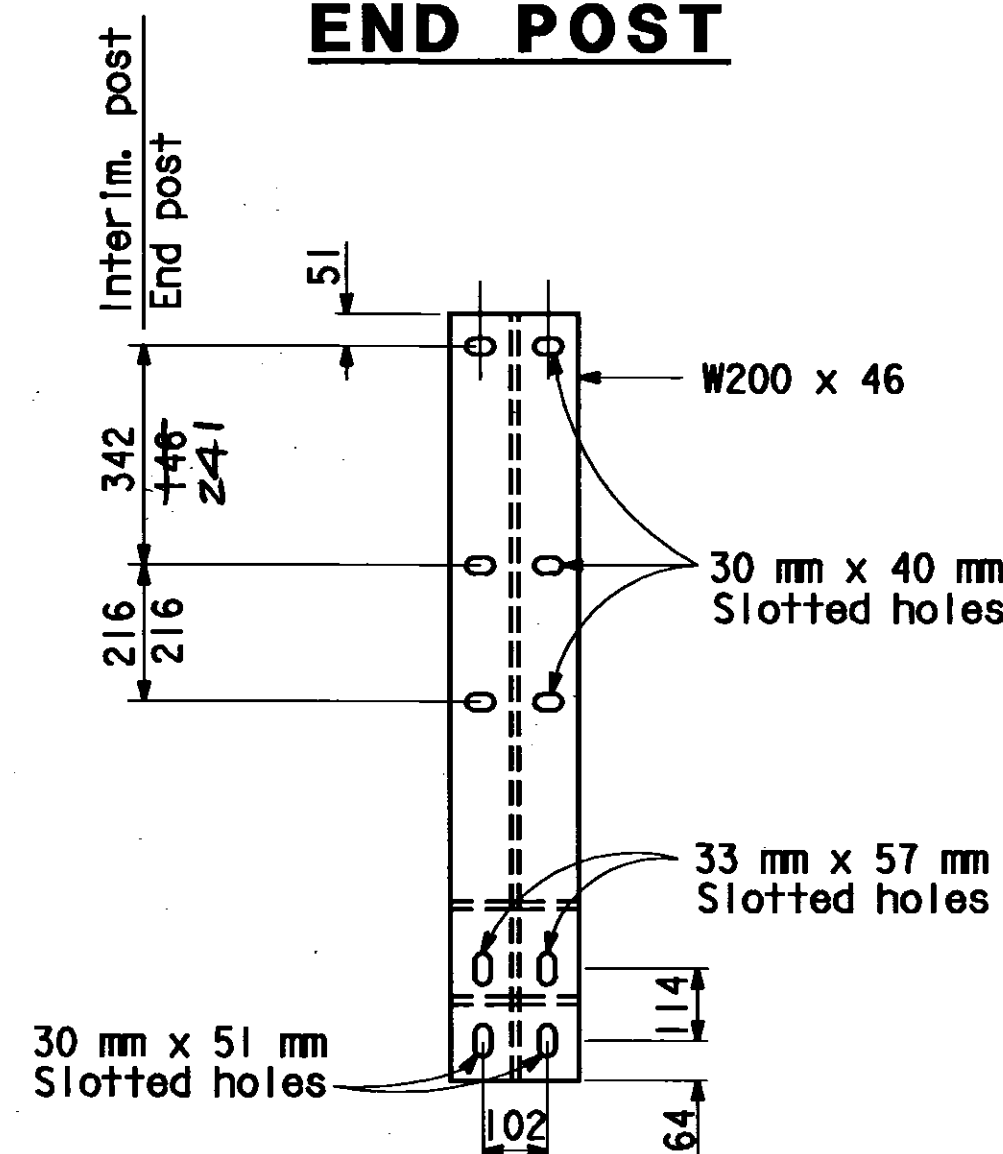
CORRECTIONS BY DEL BANK

CONTRACT NO. 06-35.6624

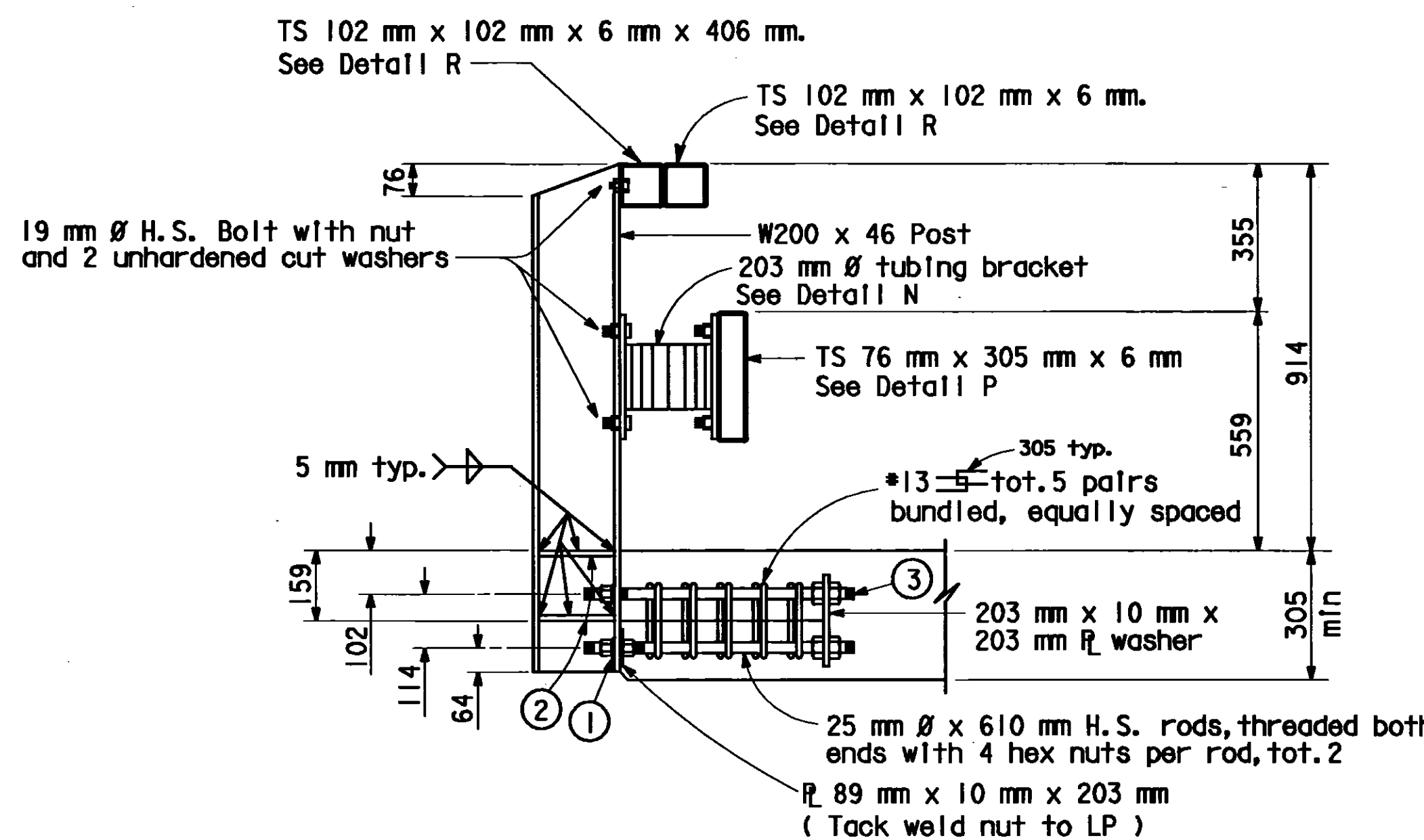
DATE 3-22-99
12-13-99



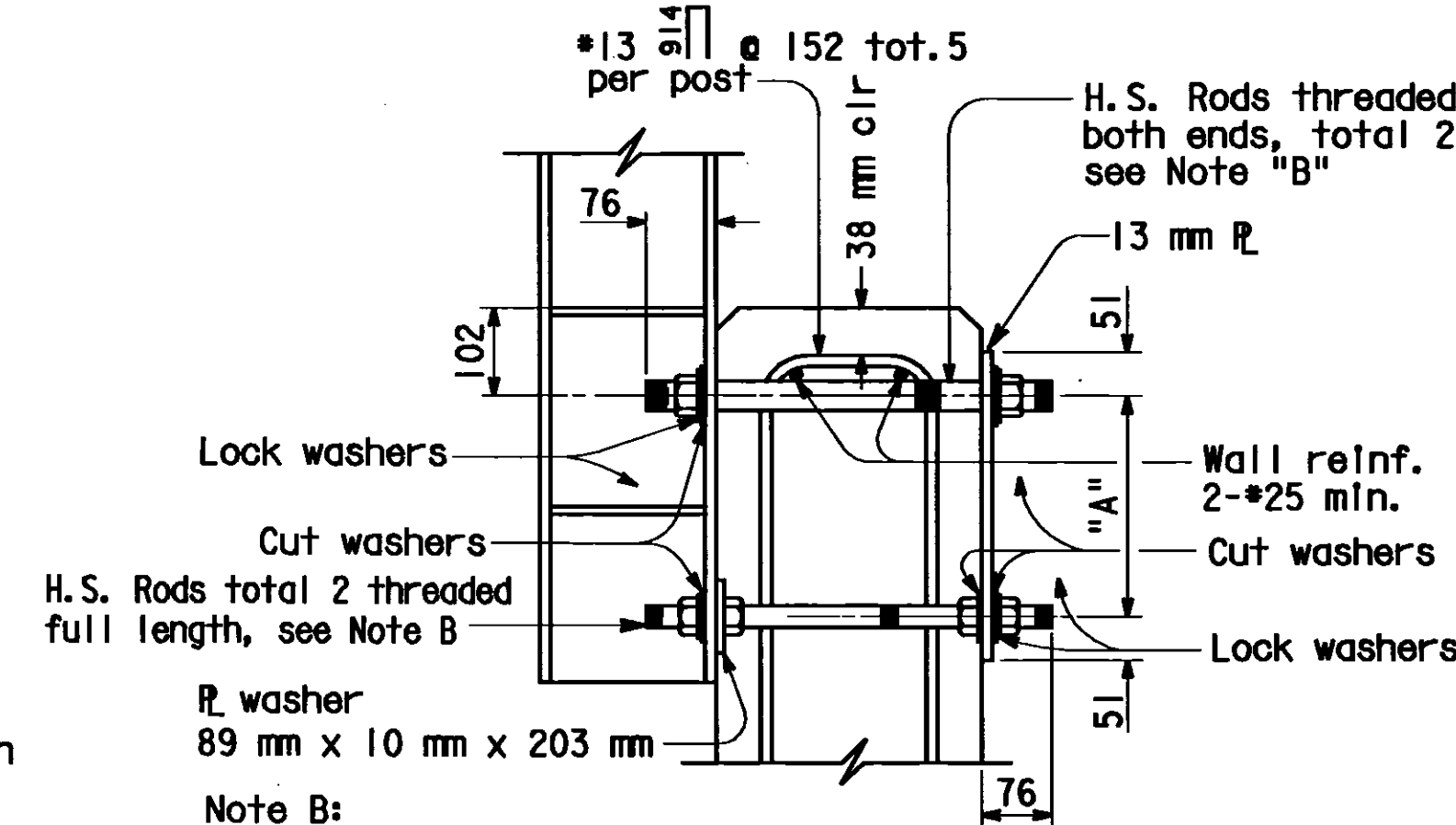
END POST



TYPICAL POST DETAIL



SECTION A-A



**SECTION
RAIL POST ON WALL**

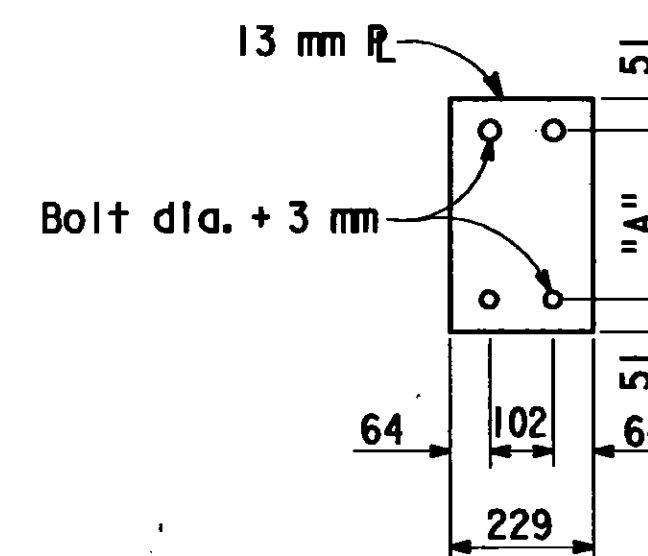


PLATE DETAIL

Notes :

- ① 1-Unhardened cut washer and 1 lock washer.
- ② Stiffener R 89 mm x 10 mm. (Each side of web: cope corners adj. to web).
- ③ 32 mm x 610 mm H.S. rods, threaded both ends with 3 hex nuts per rod, total 2. See Note 9.

FABRICATION

1. Posts shall be normal to railing.
2. Tubing shall be bent or fabricated to fit horizontal curve when curve radius is less than 289.5 m.
3. All exposed corners shall be ground smooth.
4. Tubing shall be continuous over not less than 3 intermediate posts.
5. Expansion joints in rail tubes shall match deck expansion joints.
6. Galvanize rail assembly after fabrication.
7. For two-way traffic, use a end section in lieu of backup plate.
8. For details see "Metal Tube Railing-Type 18-Sheet 2 of 2".
9. Tighten nuts snug tight.

NO SCALE
ALL DIMENSIONS ARE IN
MILLIMETERS UNLESS OTHERWISE SHOWN

STANDARD DRAWING			
FILE NO. XS 0-110	DESIGN BY R.W. BISHOP	CHECKED E.N. BRUNBERG	APPROVAL RECOMMENDED BY
DRAWING DATE 11/97	DETAILS BY R. YEE	CHECKED R.W. BISHOP	
SUBMITTED BY J. HAMAGUCHI		DESIGN SUPERVISOR	

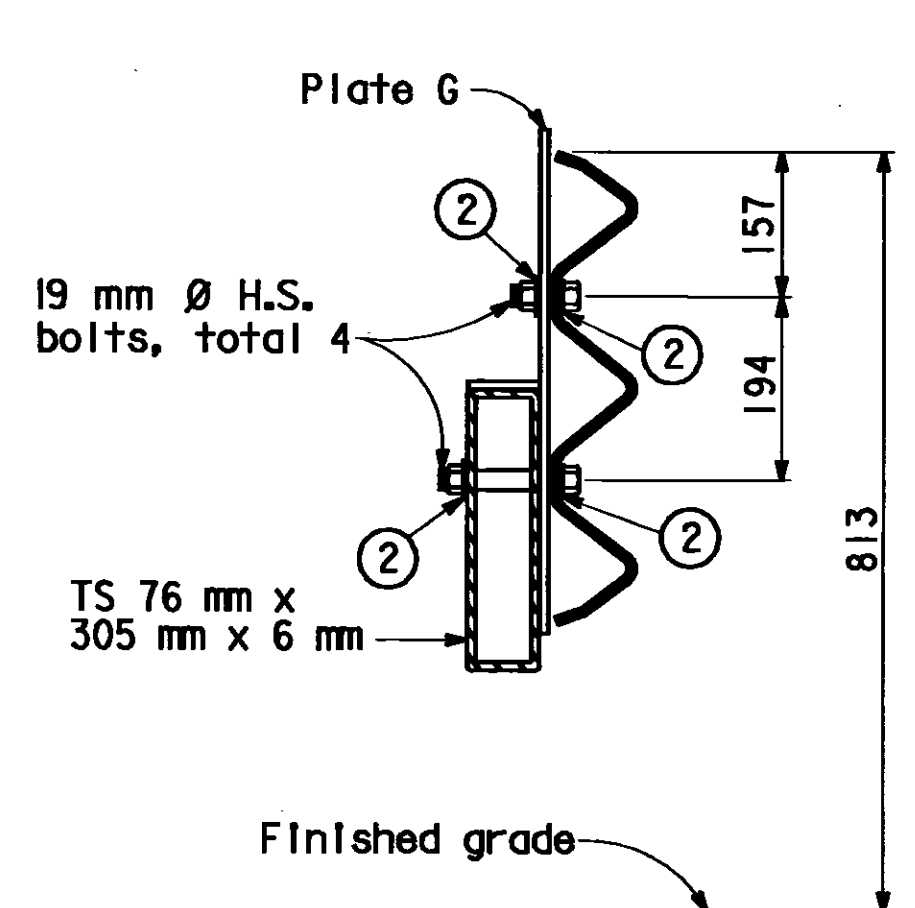
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN 3

BRIDGE NO. 45-0053
KILOMETER POST 12.7

EAST BRANCH CROSS CREEK (WIDEN)
METAL TUBE RAILING - TYPE 18 - SHEET 1 OF 2

DS OSD 2147A (METRIC) (REV. 2/25/97)	ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS	CU 06 EA 356621	DISREGARD PRINTS BEARING EARLIER REVISION DATES	REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET 8 OF 13
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DETAIL B

Thrie Beam Barrier with backup plate

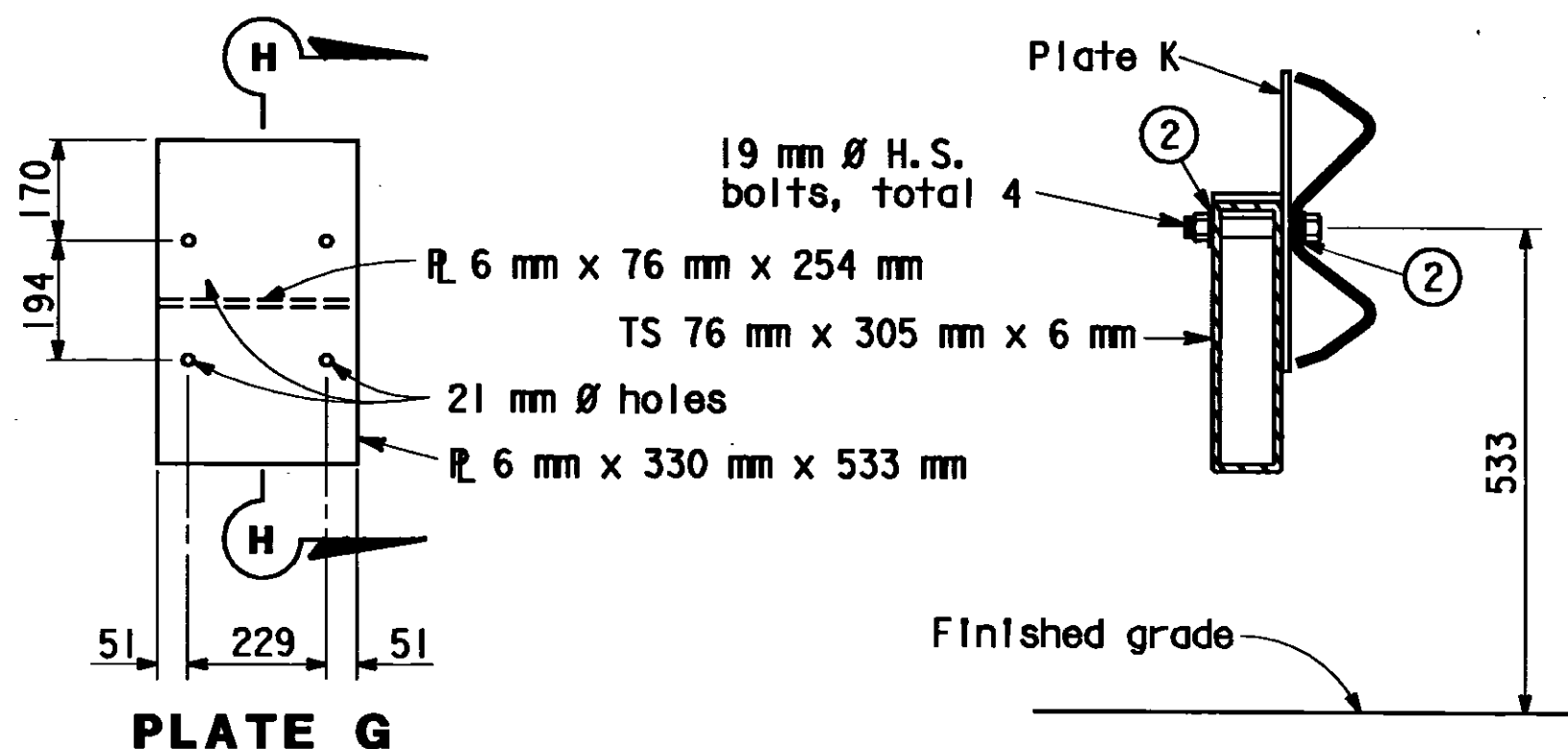
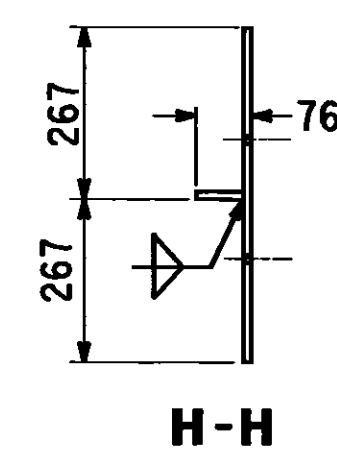
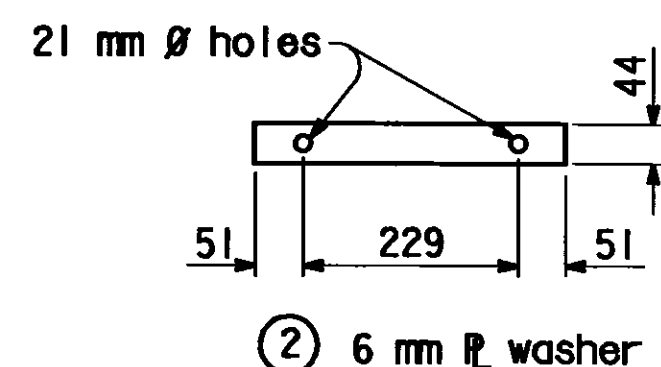


PLATE G



H-H



DETAIL C
MBGR with backup plate

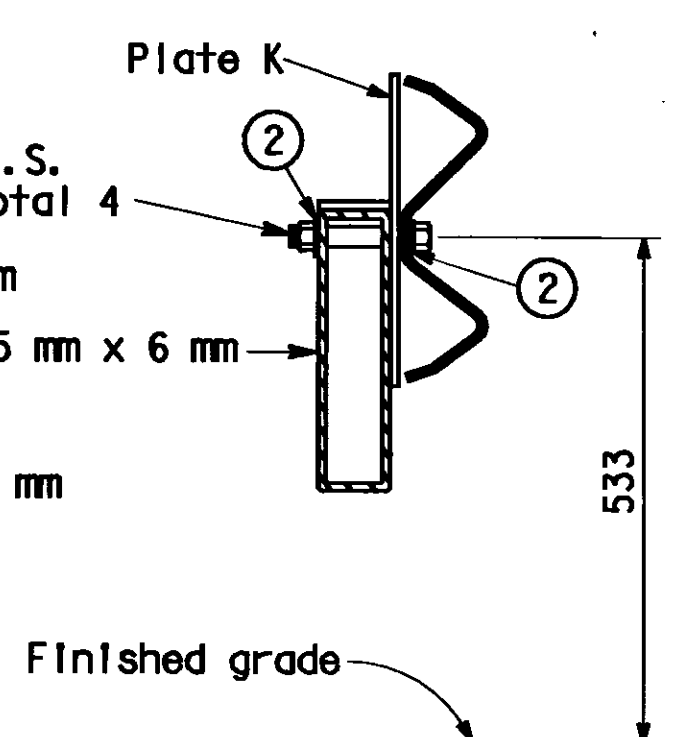
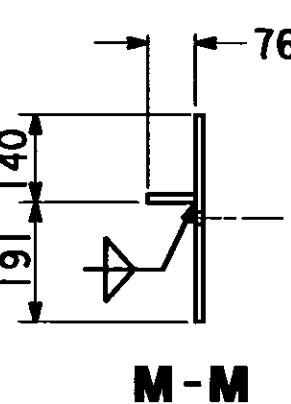
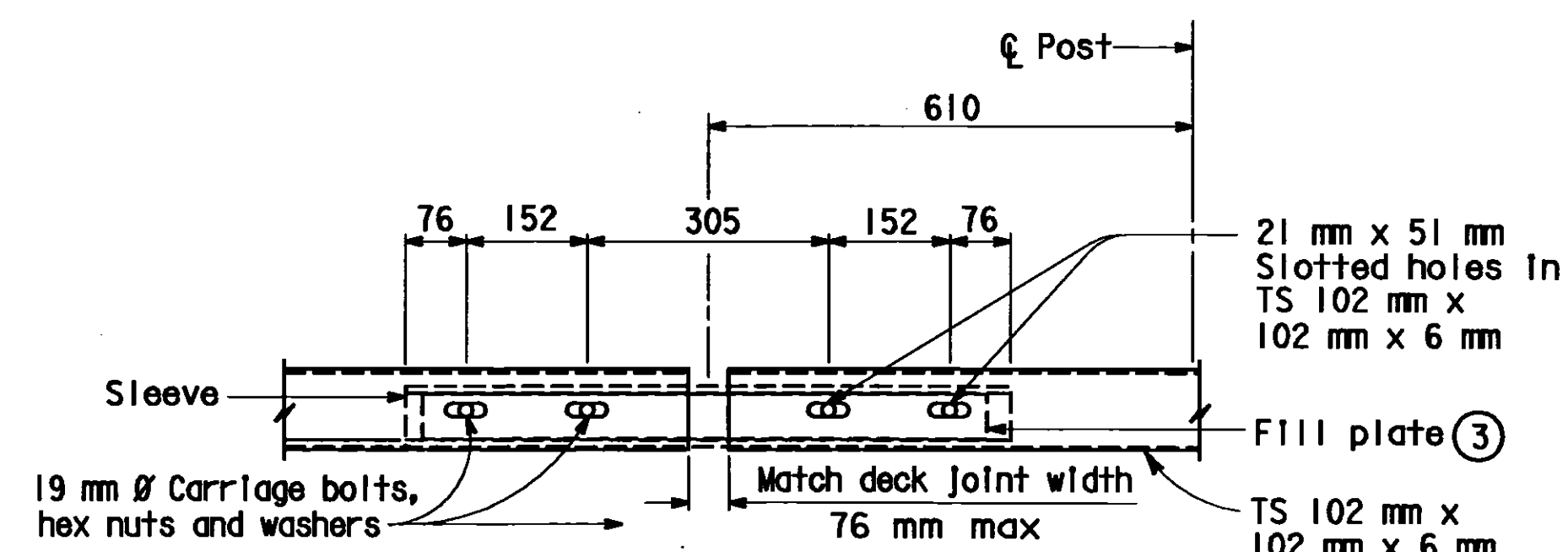


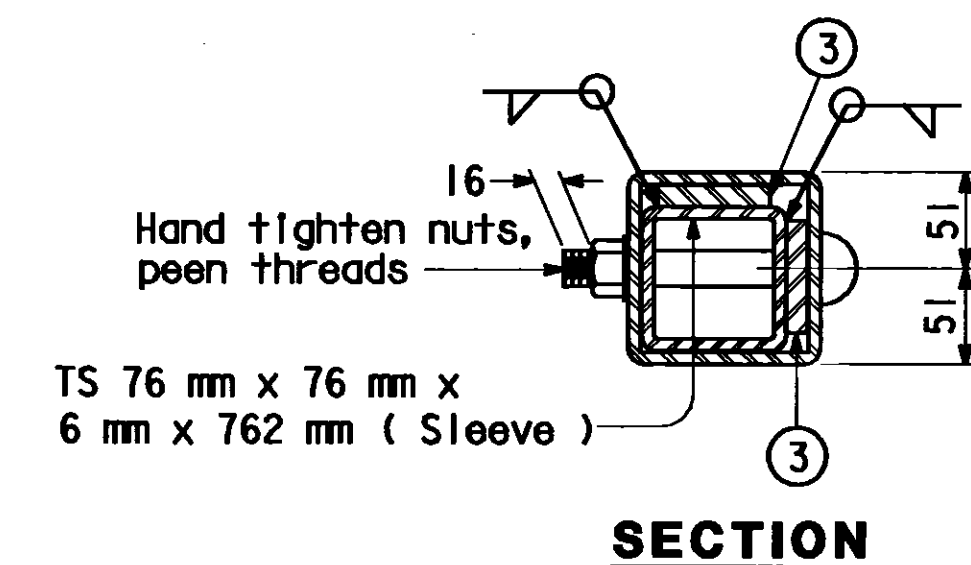
PLATE K



M-M



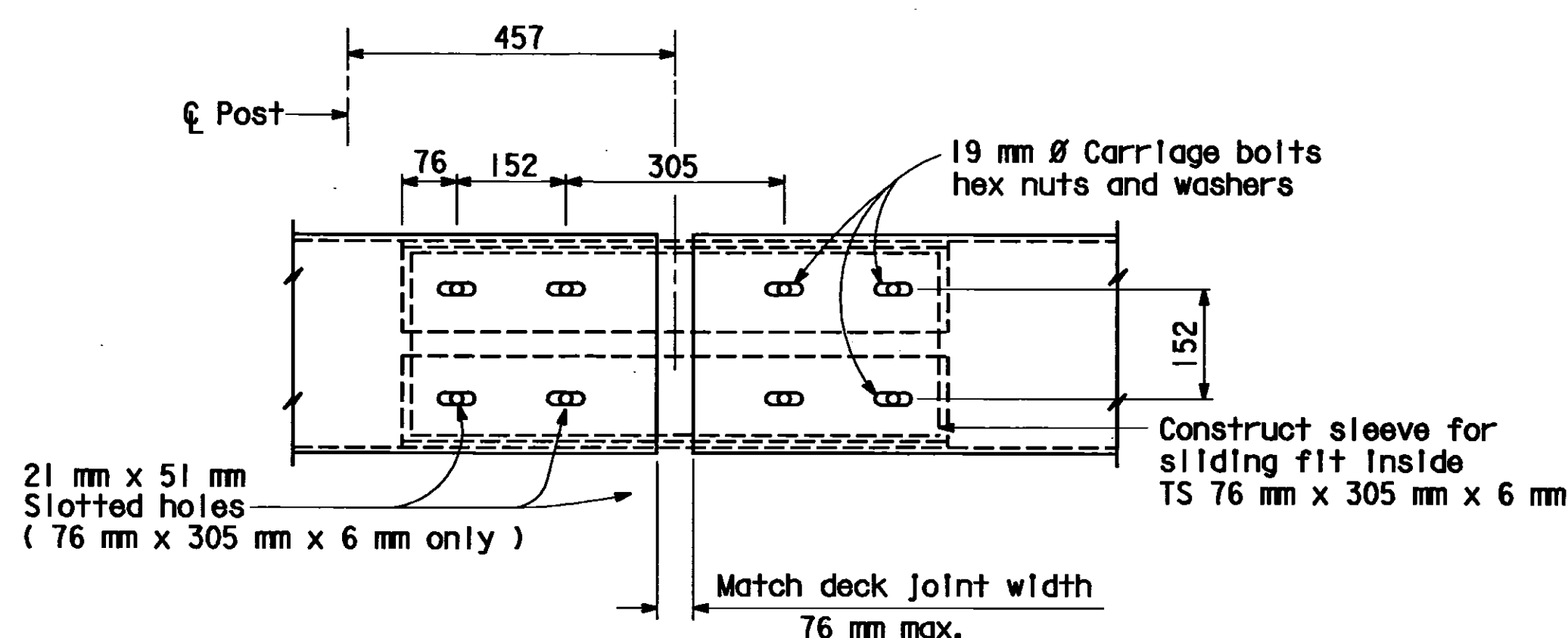
ELEVATION



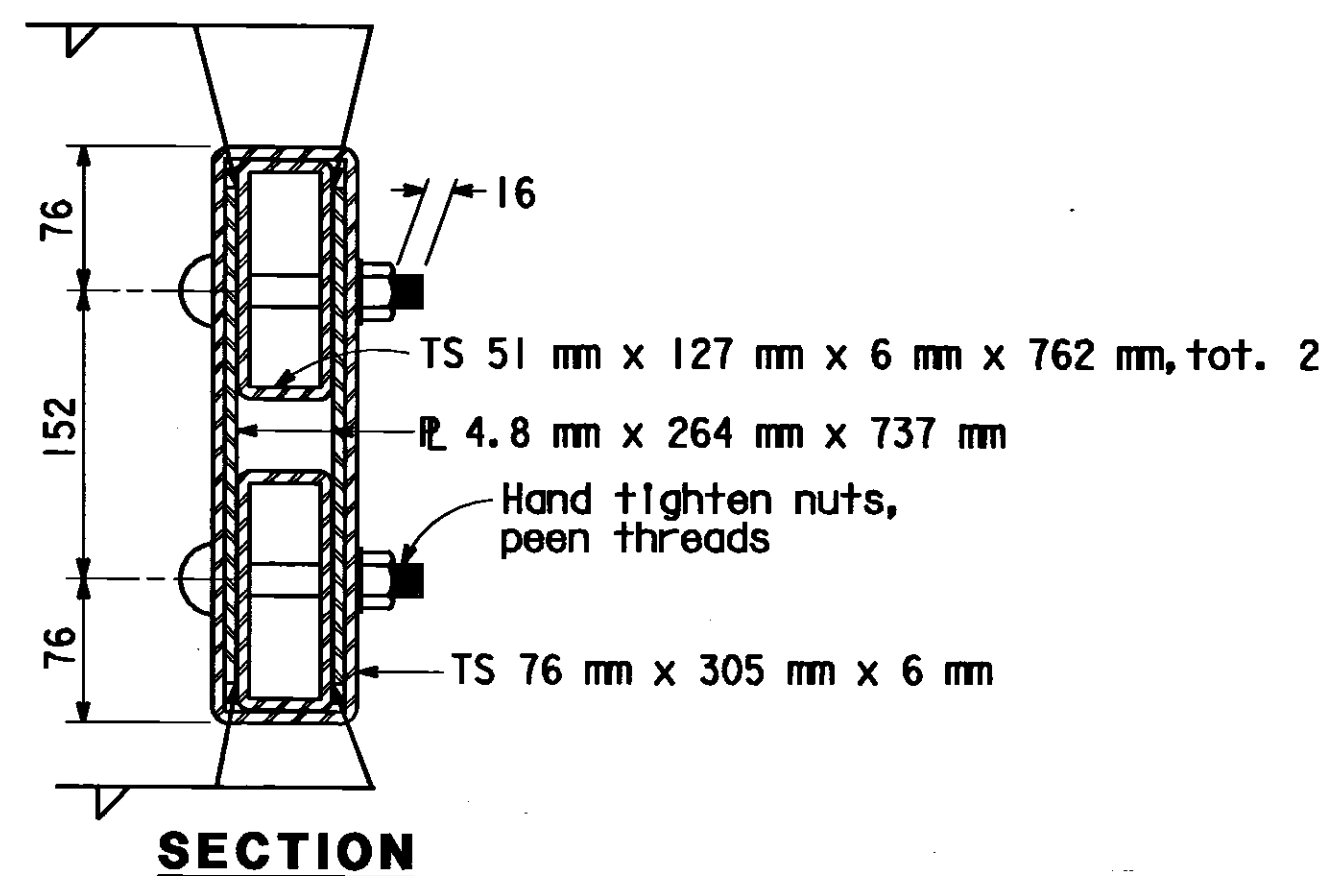
SECTION

DETAIL D

③ 6 mm x 57 mm x 10 mm x 711 mm

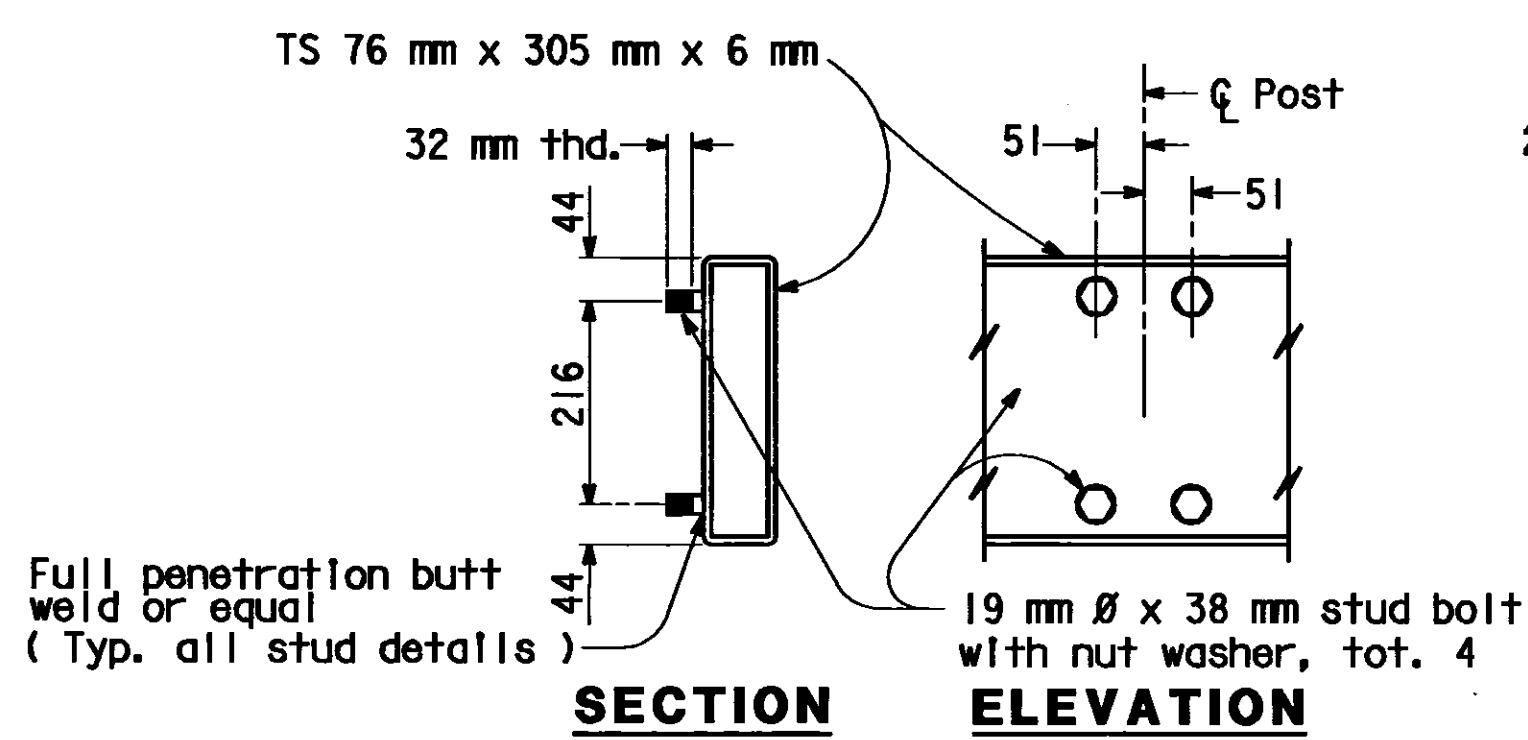


ELEVATION



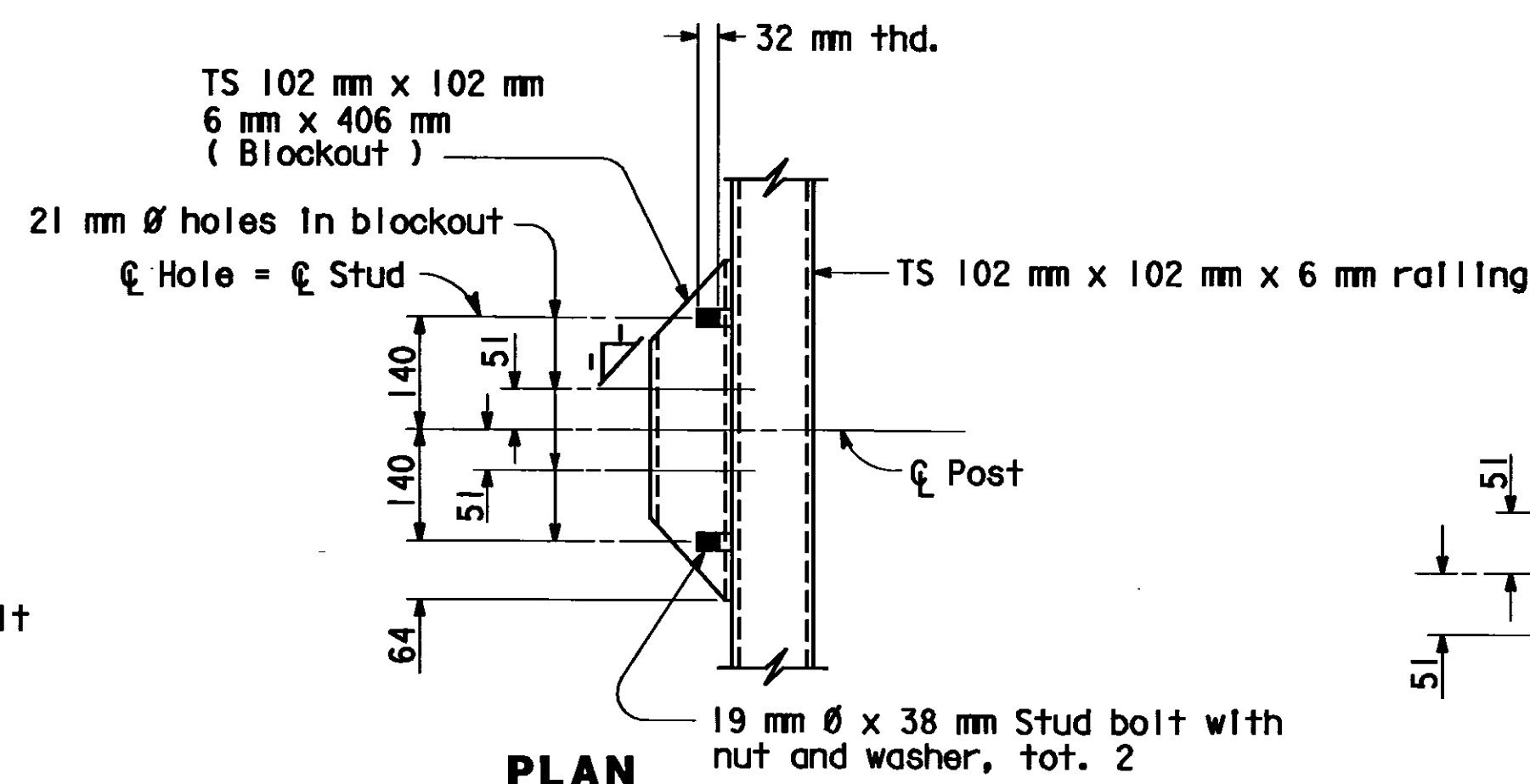
SECTION

DETAIL E



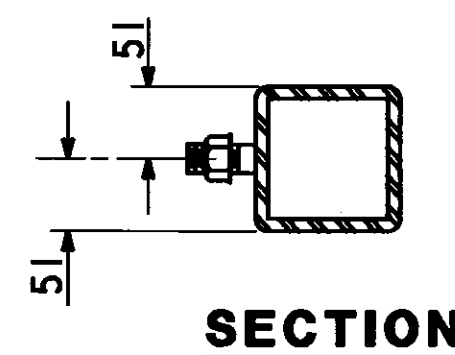
DETAIL P

Note: Stud bolts shall be torqued to 135 Nm



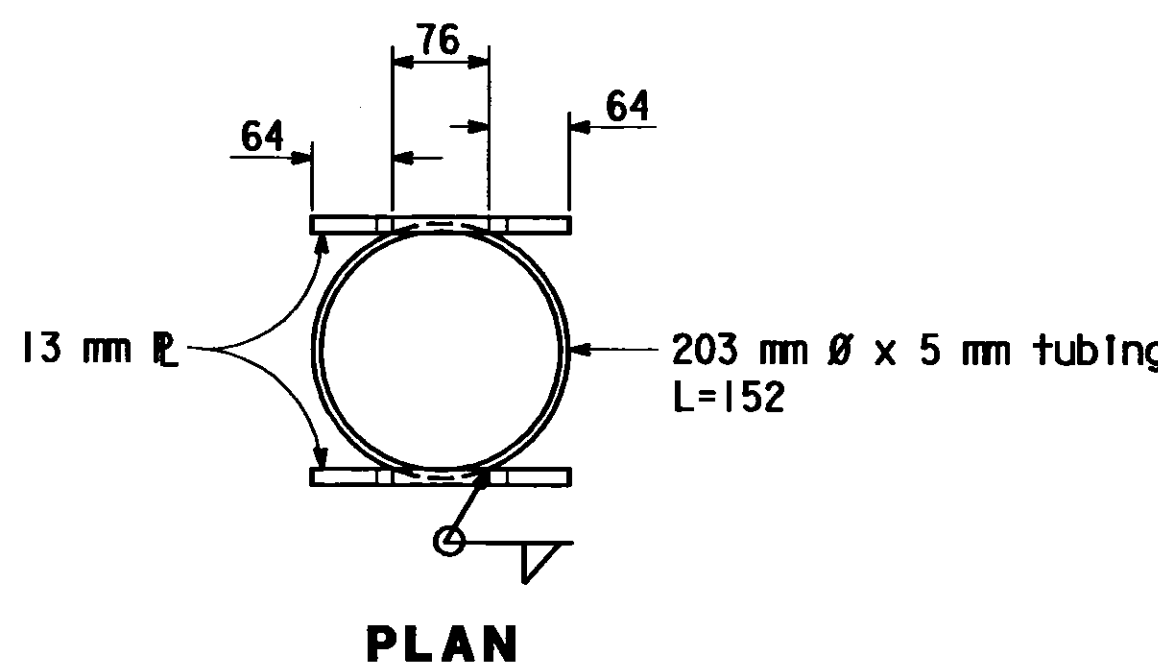
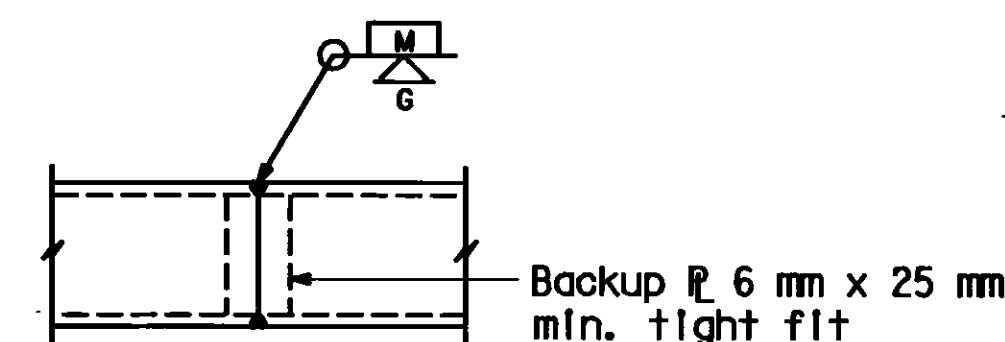
PLAN

DETAIL R

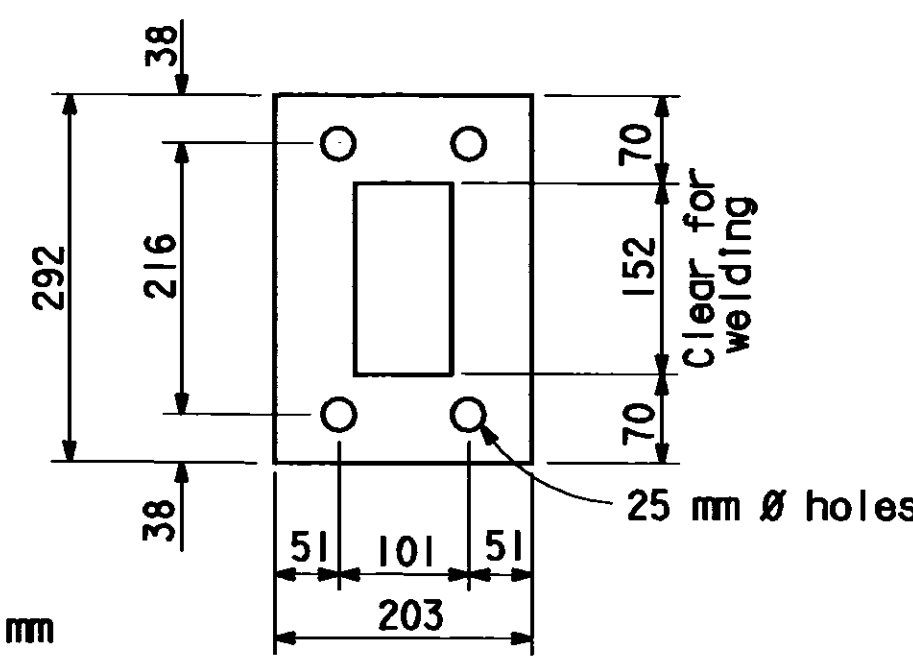


SECTION

WELDED TUBE SPLICE




PLAN



ELEVATION
DETAIL N

NO SCALE
ALL DIMENSIONS ARE IN
MILLIMETERS UNLESS OTHERWISE SHOWN

STANDARD DRAWING				
FILE NO. X8 9-110.1	DESIGN BY R.W. BISHOP	CHECKED E.N. BRUNBERG	APPROVAL RECOMMENDED BY	
DRAWING DATE 11/ 97	DETAILS BY R. YEE	CHECKED R.W. BISHOP		
	SUBMITTED BY J. HAMAGUCHI			
			DESIGN SUPERVISOR	

DS OSD 2147A (METRIC) (REV. 2/25/97)

ORIGINAL SCALE IN MILLIMETERS
FOR REDUCED PLANS

STATE OF
CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN **3**

CU 06
EA 356621

BRIDGE NO.
45-0053
KILOMETER POST
12.7

EAST BRANCH CROSS CREEK (WIDEN)

METAL TUBE RAILING - TYPE 18 - SHEET 2 OF 2

DISREGARD PRINTS BEARING
EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY)									
12-1-97									

X591191.DGN



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	KIn	43	12.7	19	25

R. K. Kobi 1-26-98
REGISTERED ENGINEER - CIVIL

6-8-98
PLANS APPROVAL DATE

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Robert J. Kobi
No. 52459
Exp. 12-31-98
CIVIL
STATE OF CALIFORNIA

AS BUILT

CORRECTIONS BY DEL BAINS

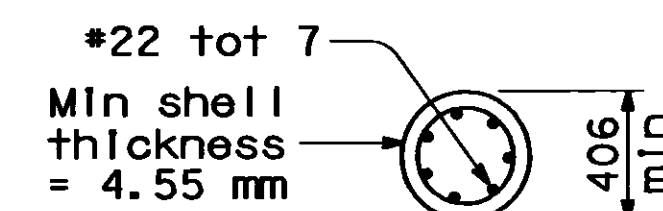
CONTRACT NO. 06-356624

DATE 3-22-99

NCG 12-13-99

NOTES:

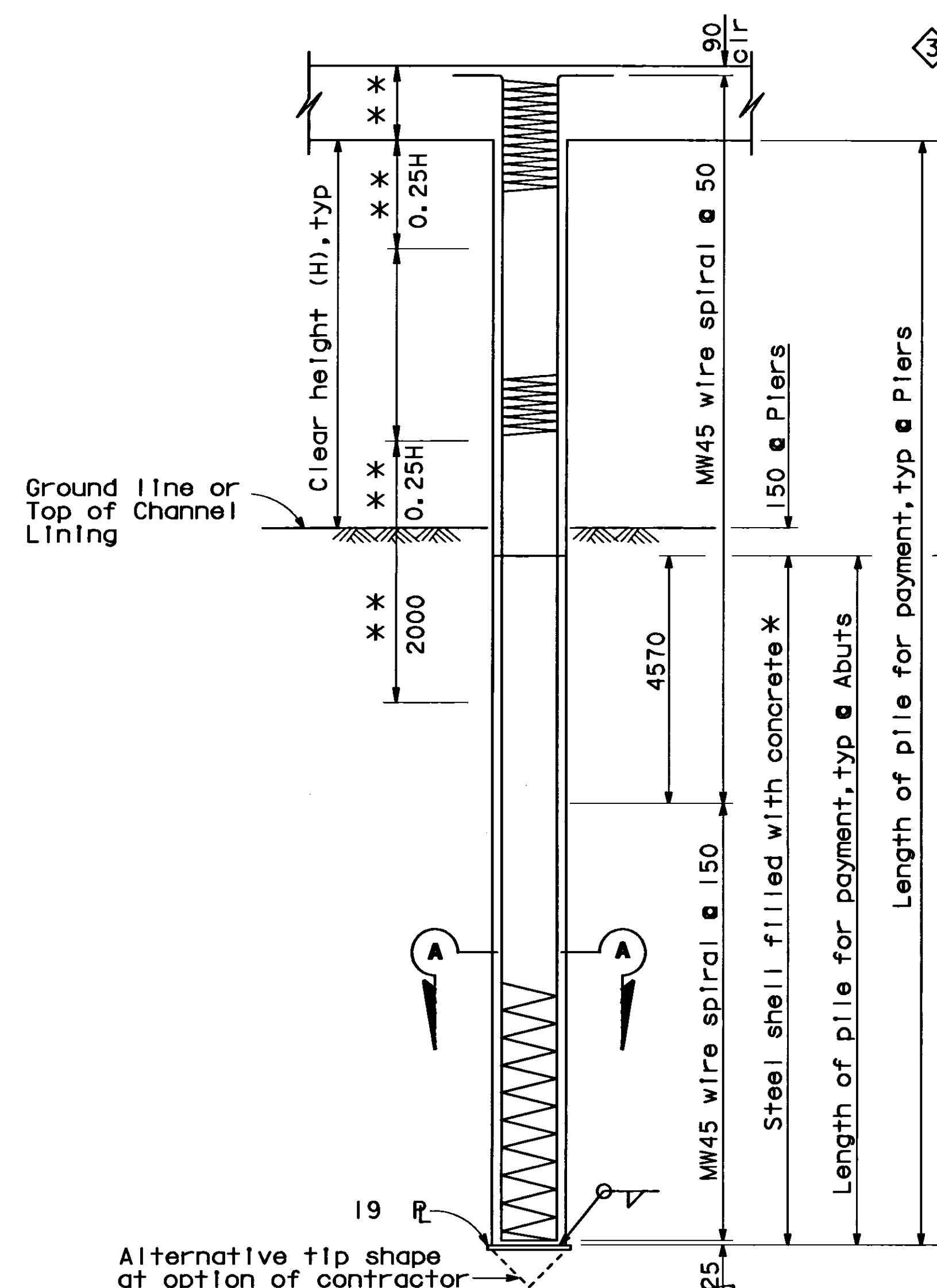
2. Maximum size of aggregate is 25 mm.
3. For the prestressed concrete pile:
 - A. The prestress force after all losses shall provide 5 MPa minimum stress and shall not be less than 580 kN.
 - B. The concrete strength shall not be less than 42 MPa at 28 days.
4. No splices allowed in the longitudinal reinforcement within the "clear height" and/or within 3 m below the ground line.



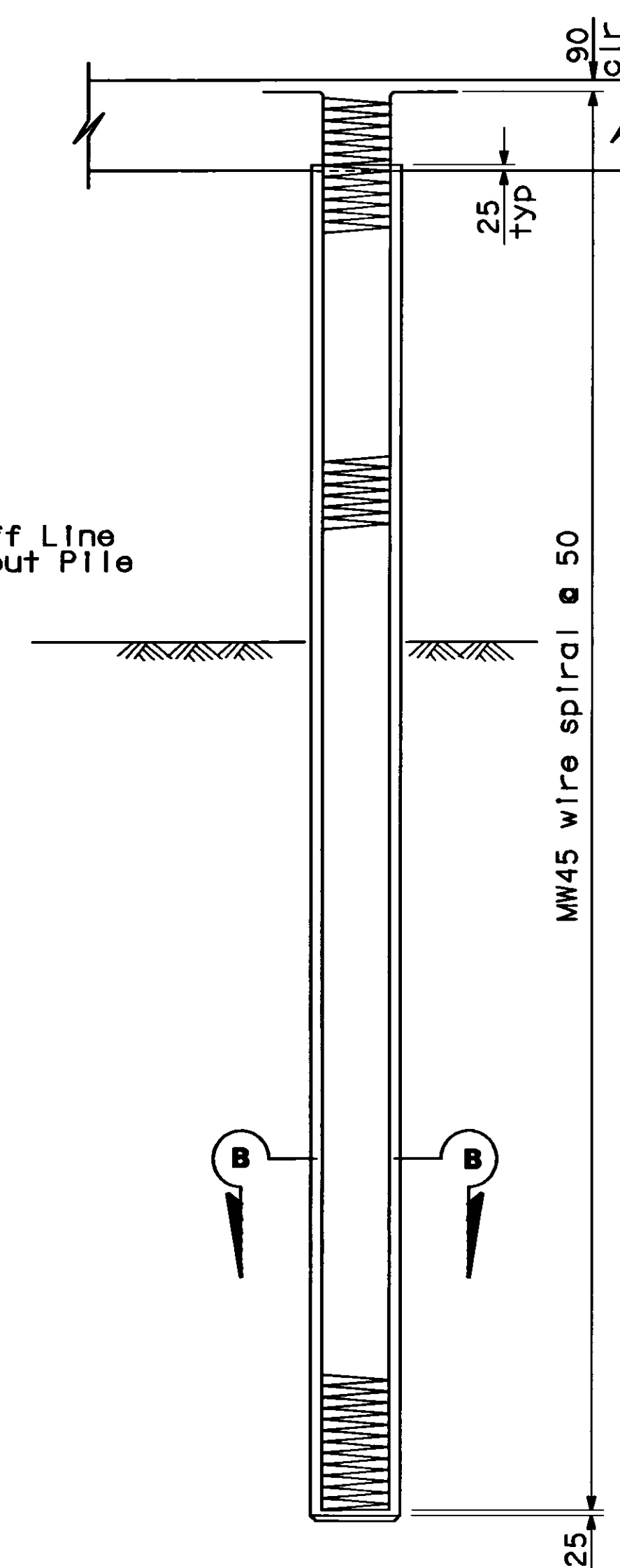
SECTION A-A



SECTION B-B



CAST-IN-STEEL SHELL CONCRETE PILE



PRECAST PRESTRESSED CONCRETE PILE

- * Full height steel shell optional embed 25 into soffit
- ** No reinforcing or steel shell splices.

SPECIAL DETAILS

NO SCALE

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

STANDARD DRAWING

FILE NO. X8 12-55.1	DESIGN BY JIM H. GATES	CHECKED STEVE B. MCBRIDE	APPROVAL RECOMMENDED BY <i>[Signature]</i>
DRAWING DATE REVISED	DETAILS BY R. YEE	CHECKED R.A. ROGERSON	DESIGN SUPERVISOR <i>[Signature]</i>

1 Deleted Detail	4 Added Note
2 Deleted Note	
3 Changed Details	

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN **3**

BRIDGE NO. 45-0053
KILOMETER POST 12.7

EAST BRANCH CROSS CREEK (WIDEN)

SLAB BRIDGE PILE DETAILS

DS OSD 2147A (METRIC) (REV. 2/25/97)

ORIGINAL SCALE IN MILLIMETERS
FOR REDUCED PLANS



CU 06
EA 356621

DISREGARD PRINTS BEARING
EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY)

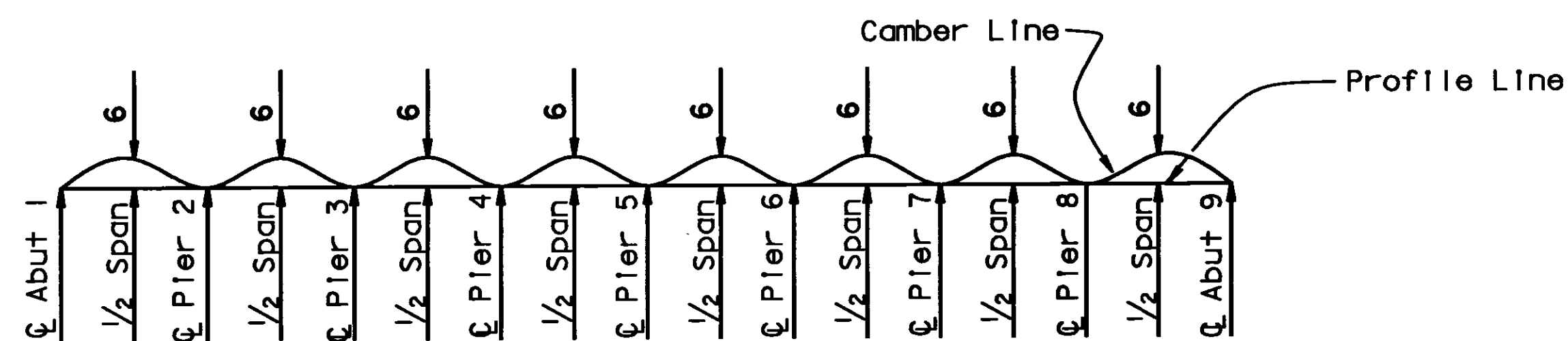
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SHEET 7 OF 13

USERNAME => trienard

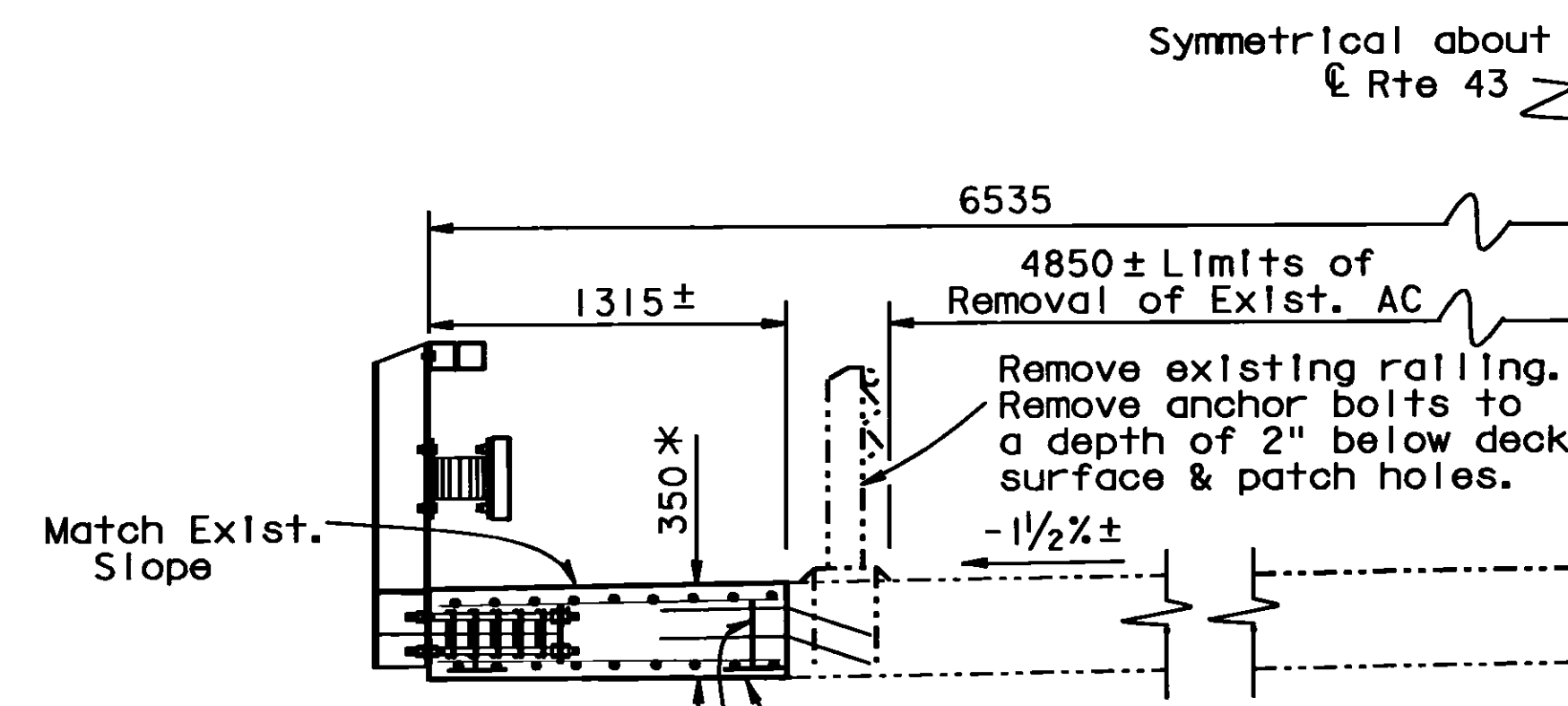
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XS12551.DGN



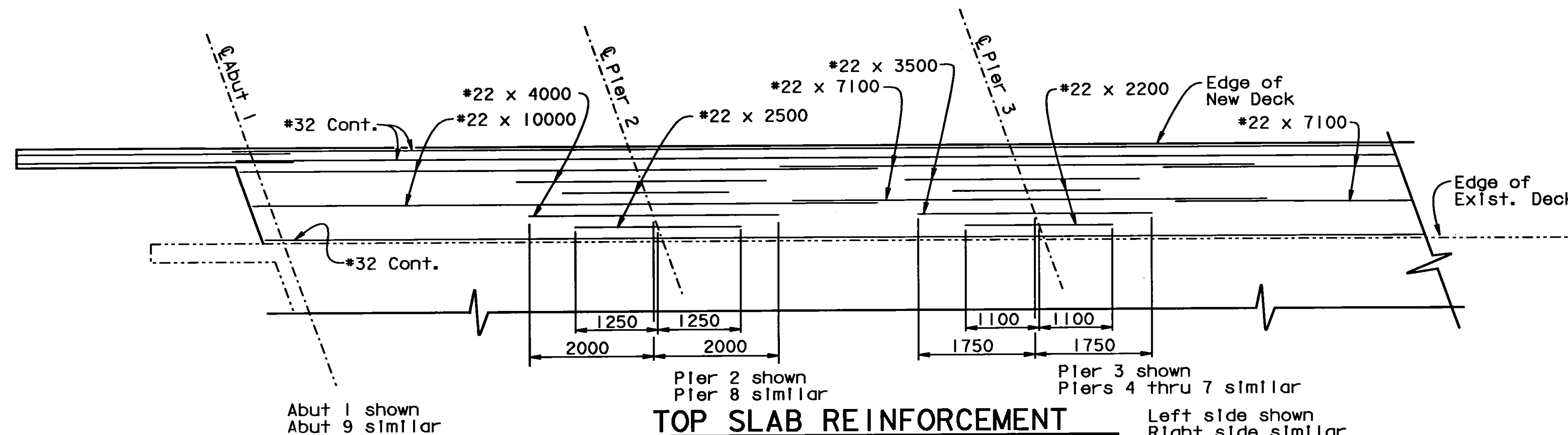
CAMBER DIAGRAM

No Scale
Does not allow for falsework settlement



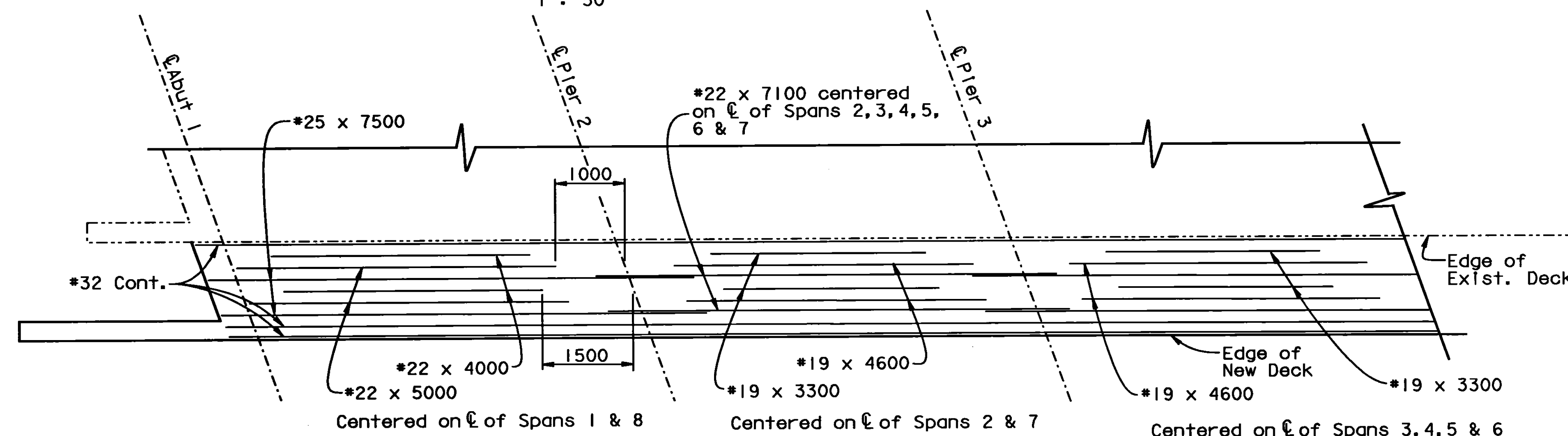
TYPICAL SECTION

1 : 25
* varies at Left side only



TOP SLAB REINFORCEMENT

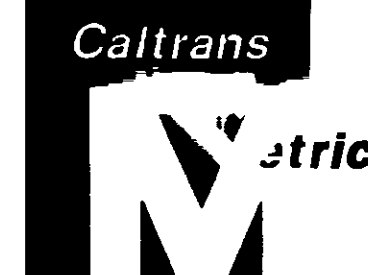
1 : 50



BOTTOM SLAB REINFORCEMENT

1 : 50

Right side shown
Left side similar



DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	King	43	12.7	17	25

REGISTERED ENGINEER - CIVIL

6-8-98

PLANS APPROVAL DATE

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1-26-98

Robert J. Kadal

No. 52459

Exp. 12-31-98

CIVIL

STATE OF CALIFORNIA

NOTE:
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No AS BUILT CHANGES

CORRECTIONS BY DEL BAINS

CONTRACT NO. 06-356624

DATE 3-22-99

NCG 12-13-99

ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

DESIGN	BY Lori Ewens	CHECKED Hector Romero
DETAILS	BY Janie Chlubna	CHECKED Hector Romero
QUANTITIES	BY Vincent T. Gaston	CHECKED Beau Trinh

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
STRUCTURE DESIGN 3

BRIDGE NO.	45-0053
KILOMETER POST	12.7

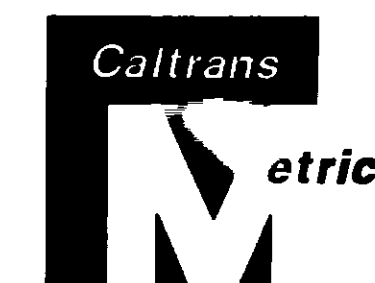
EAST BRANCH CROSS CREEK (WIDEN)
SLAB REINFORCEMENT LAYOUT

CU 06
EA 356621

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY)	SHEET	OF
10-18-97 10-21-97 10-23-97 10-25-97 10-27-97 11-3-97 11-24-97 1-20-98	5	13

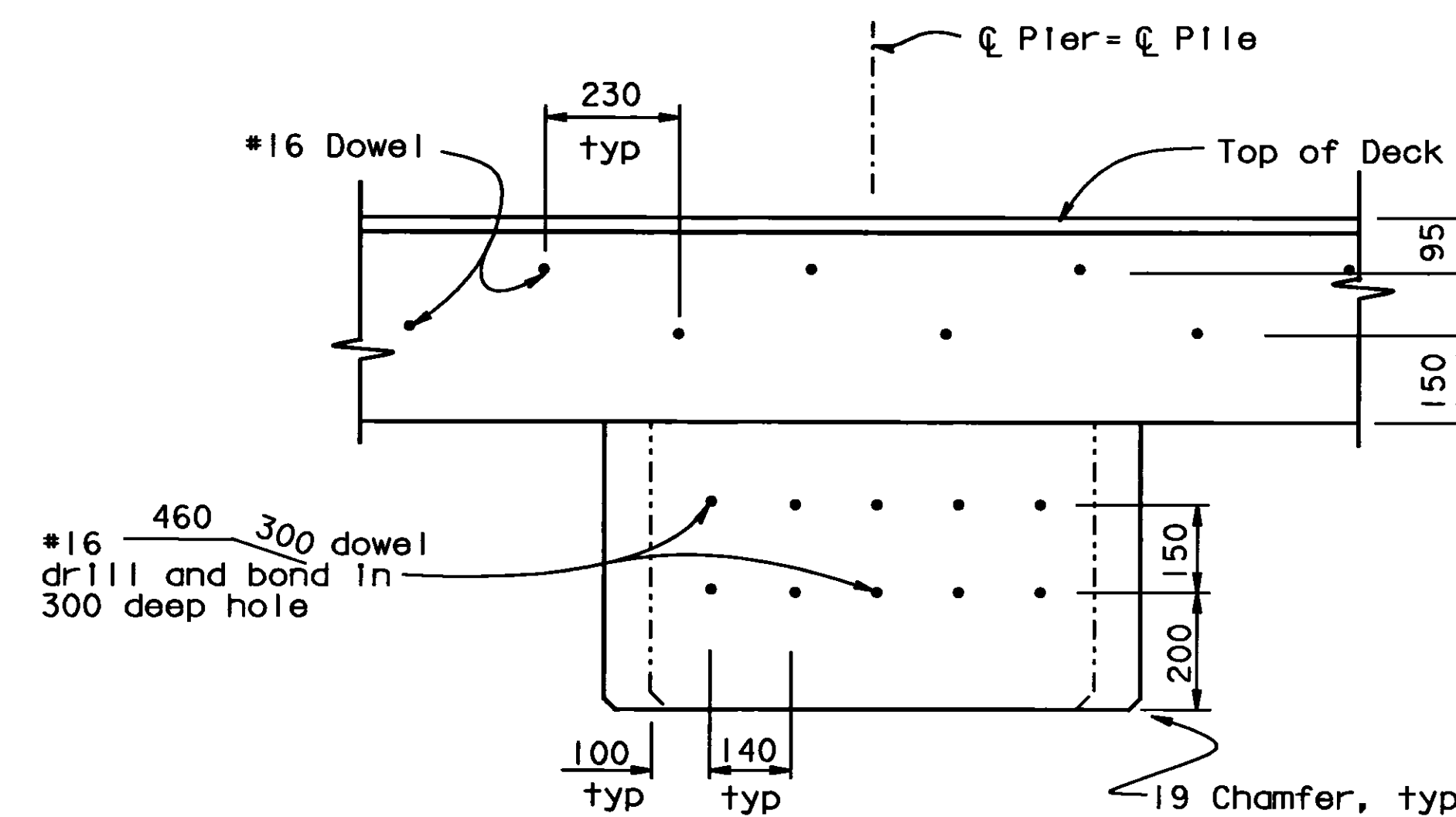
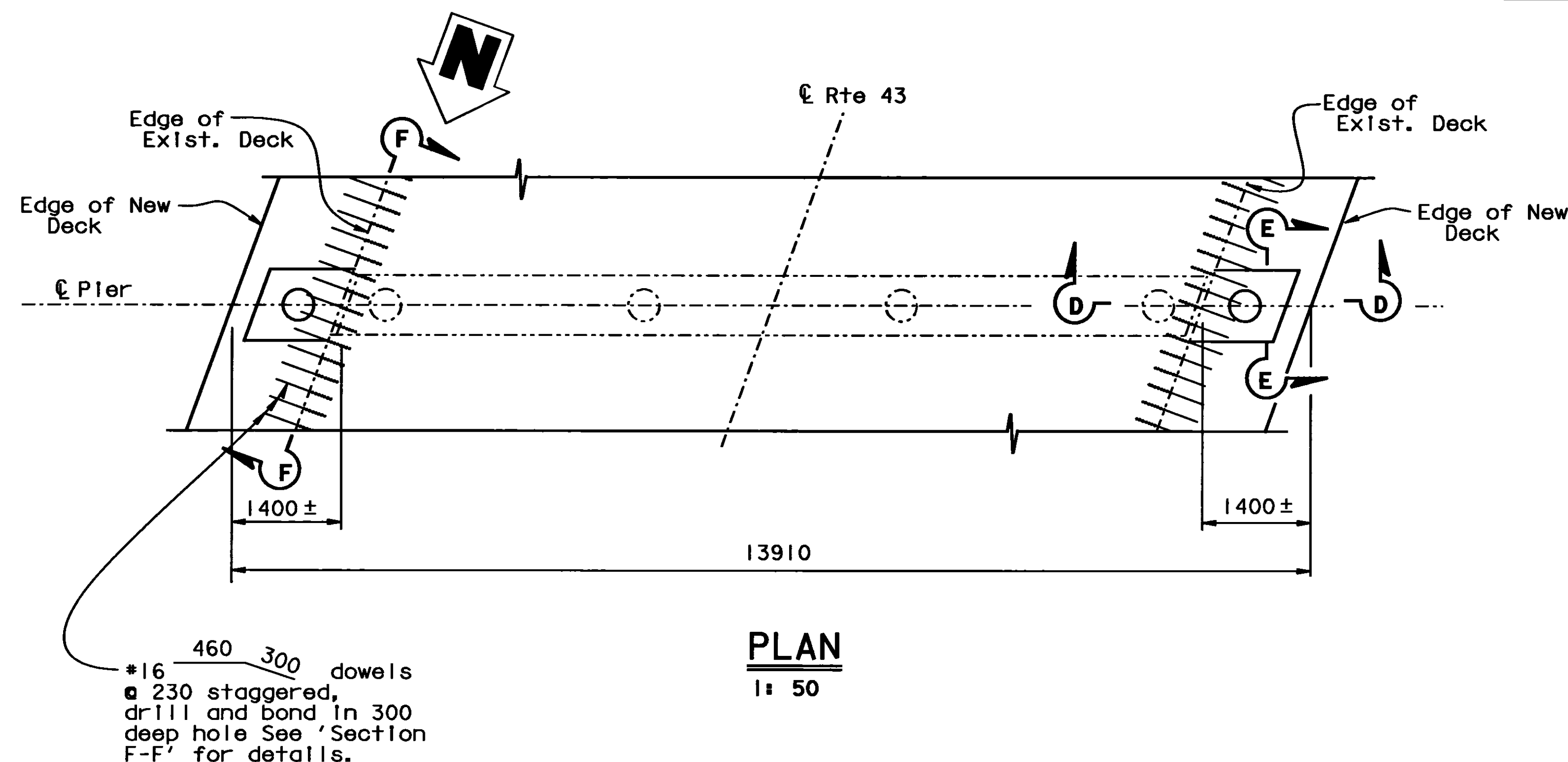
ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS



DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Kln	43	12.7	16	25

R. K. Hall
REGISTERED ENGINEER - CIVIL
1-26-98
6-8-98
PLANS APPROVAL DATE
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CIVIL
STATE OF CALIFORNIA



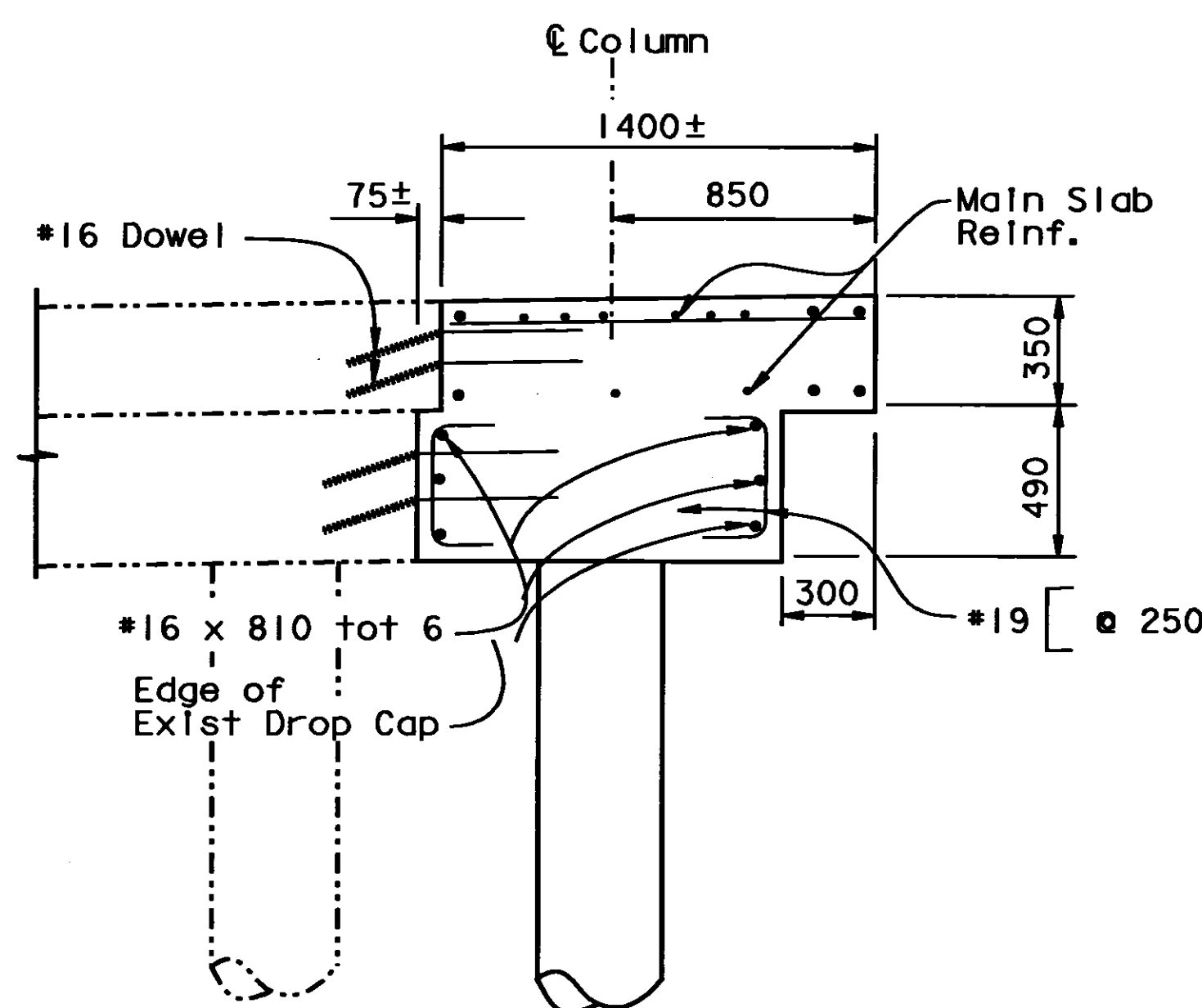
AS BUILT

CORRECTIONS BY DEL BAINS

CONTRACT NO. 06-356624

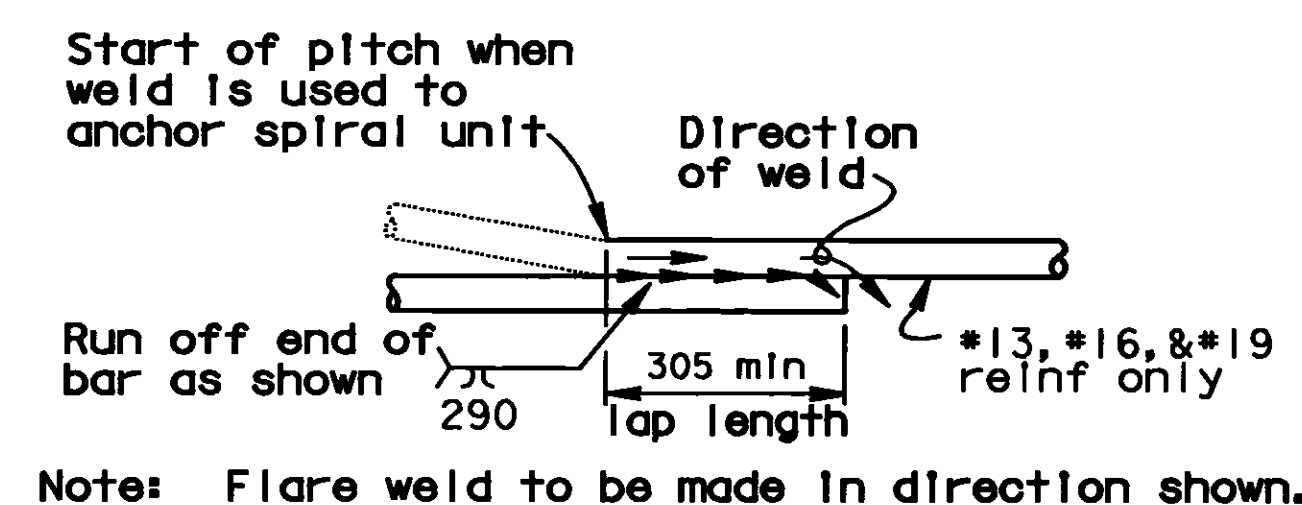
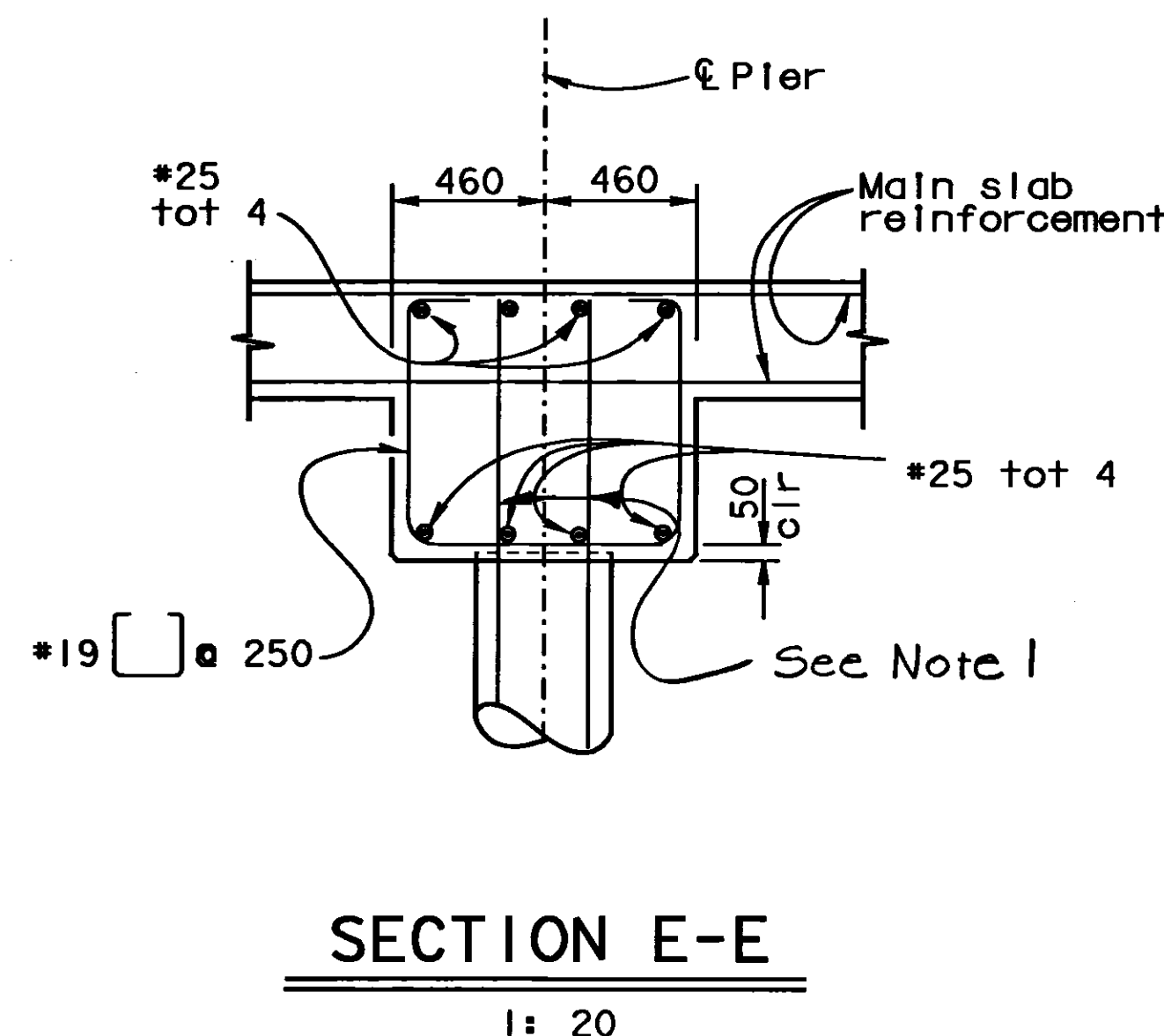
DATE 3-22-99
NCG 12-13-99

Note #	DESCRIPTION
1	#19 Bar lock couplers @ 800 mm fr top of deck Total 6

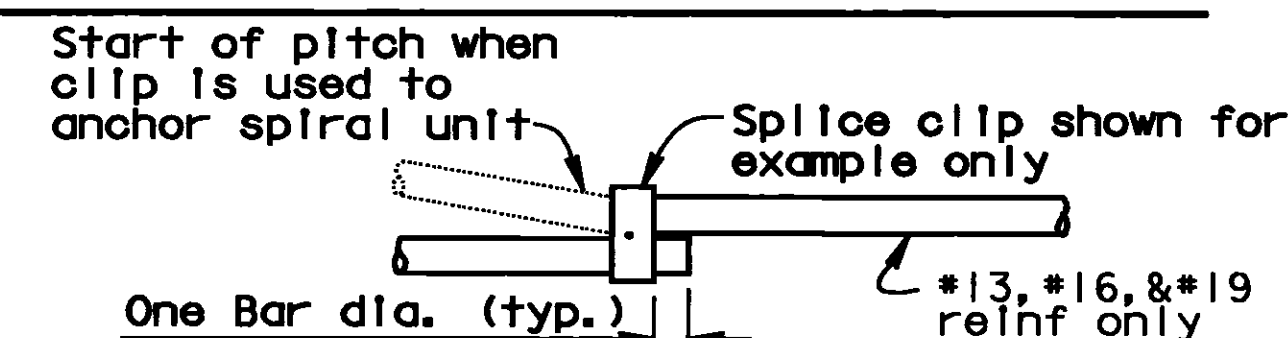


NOTE:
For details not shown see "Slab Reinforcement Layout" and "Slab Reinforcement Details" sheets.

Roughen Exist. Surface to 7 amplitude

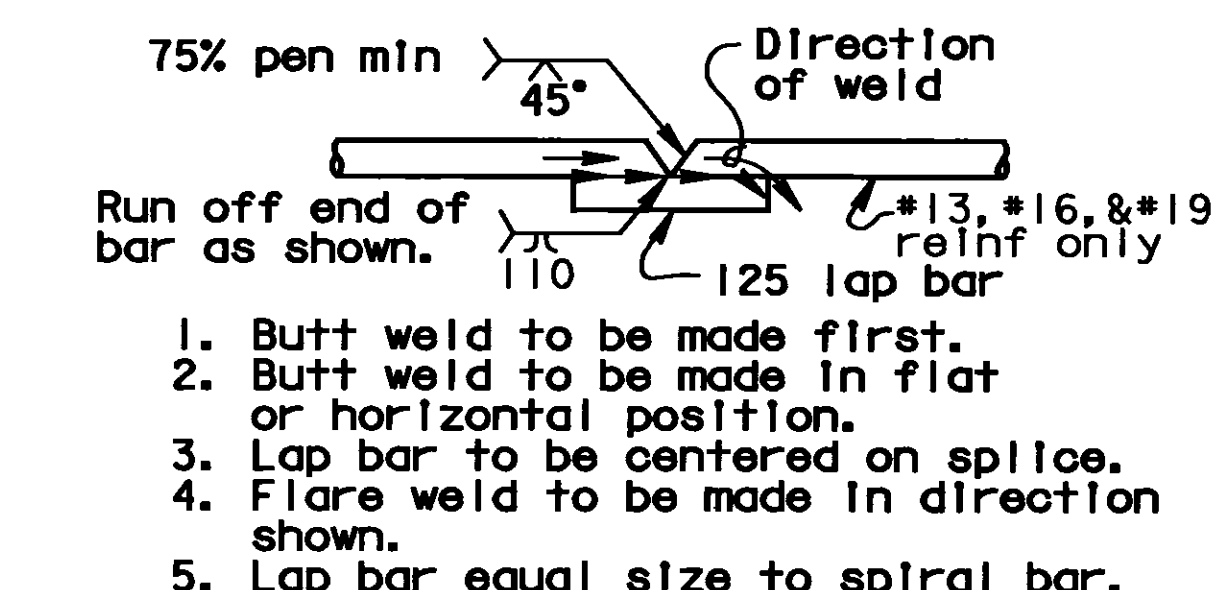


WELDED LAP SPLICE AND ANCHOR

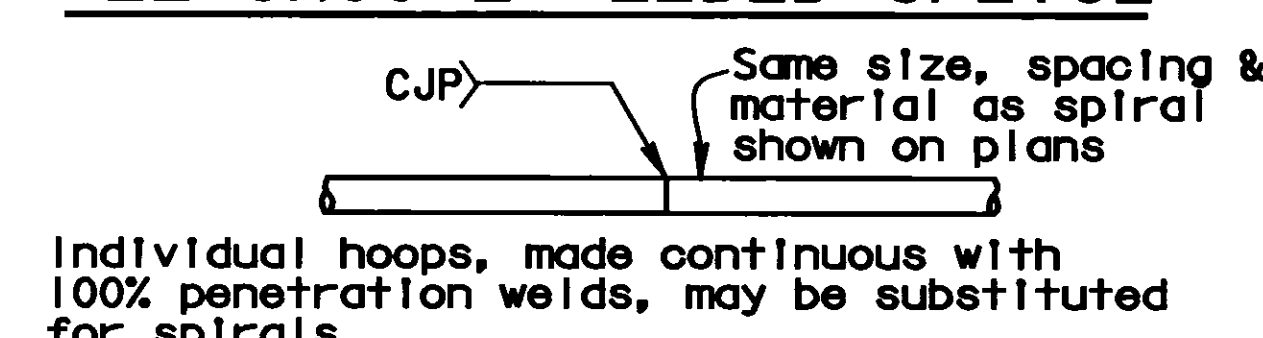


BAR SPIRAL SPLICE & SPIRAL ANCHOR AND HOOP DETAIL

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.



VEE GROOVE WELDED SPLICE



NO AS BUILT CHANGES

CORRECTIONS BY DEL BAINS

CONTRACT NO. 06-3566 24

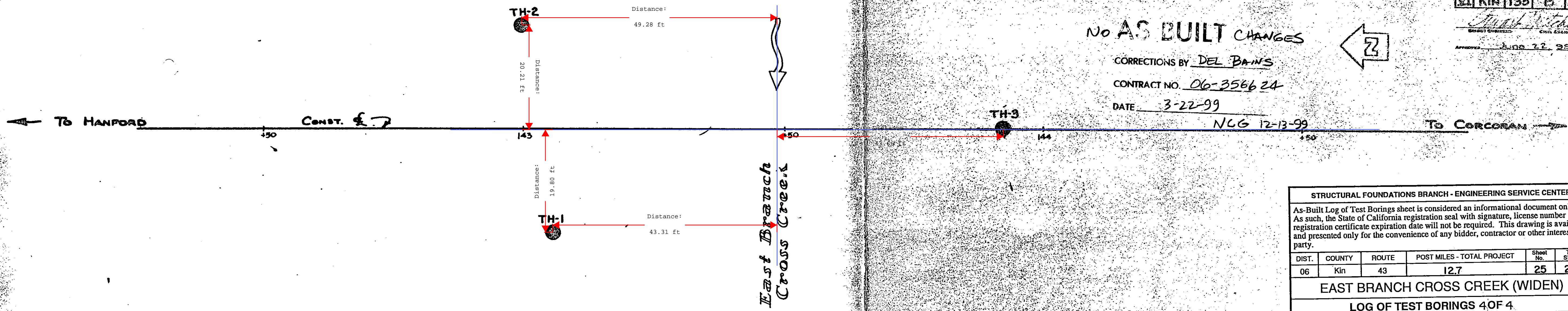
DATE 3-22-99

NCG 12-13-99

To CORCORAN

To HANFORD

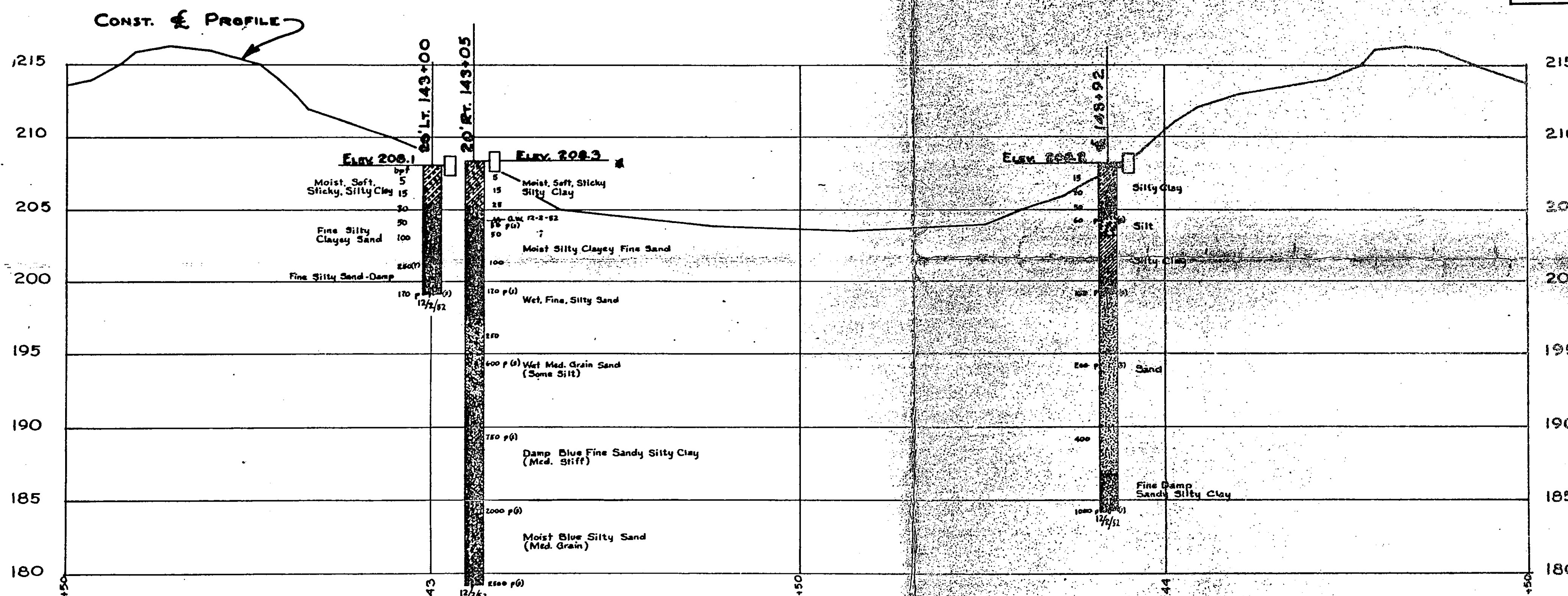
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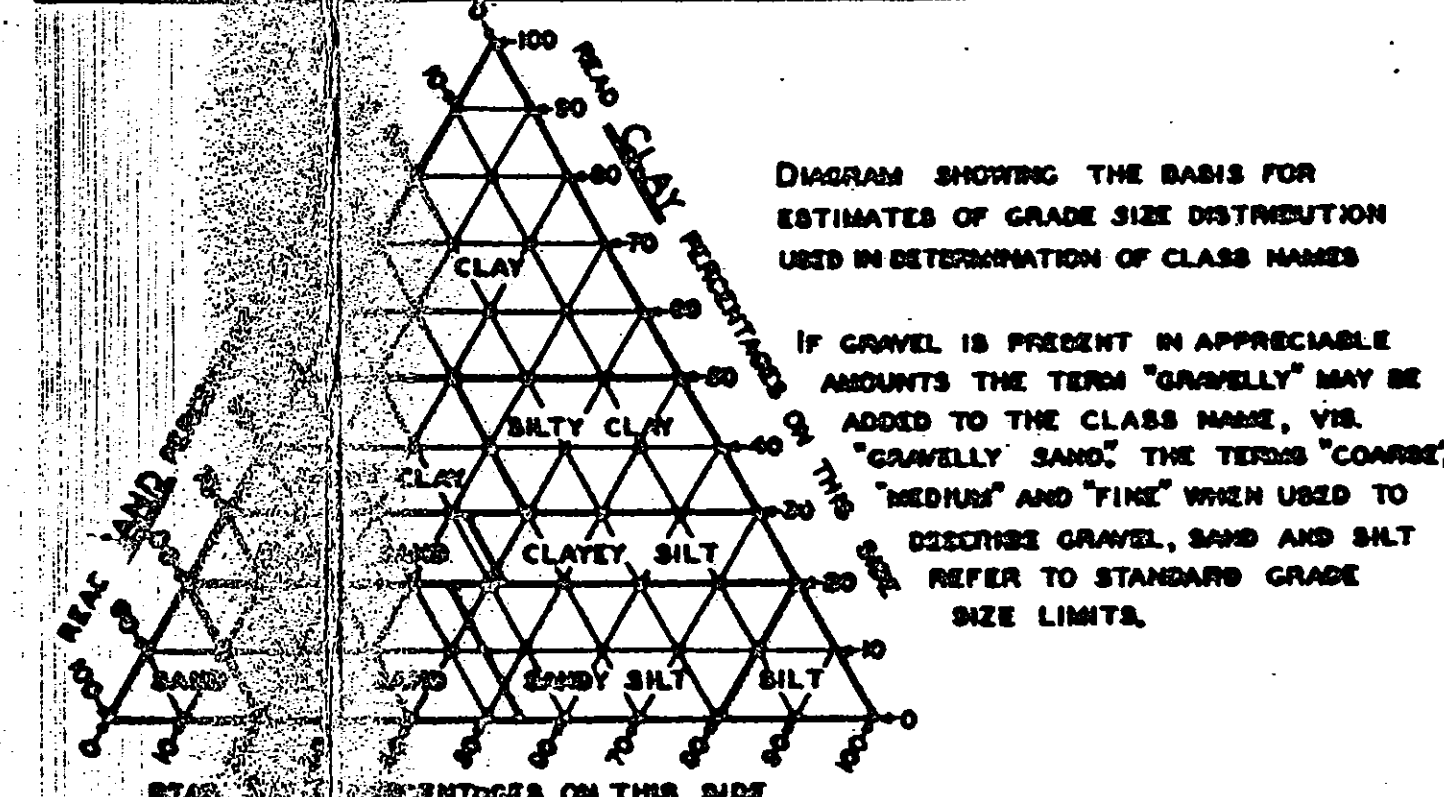
STRUCTURAL FOUNDATIONS BRANCH - ENGINEERING SERVICE CENTER					
As-Built Log of Test Borings sheet is considered an informational document only. As such, the State of California registration seal with signature, license number and registration certificate expiration date will not be required. This drawing is available and presented only for the convenience of any bidder, contractor or other interested party.					
DIST.	COUNTY	ROUTE	POST MILES - TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Kin	43	12.7	25	25
EAST BRANCH CROSS CREEK (WIDEN)					
LOG OF TEST BORINGS 4 OF 4					
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6-8-98

TO ACCOMPANY PLANS DATED



CLASSIFICATION MATERIAL BASED ON STANDARD GRADE SIZE LIMITS

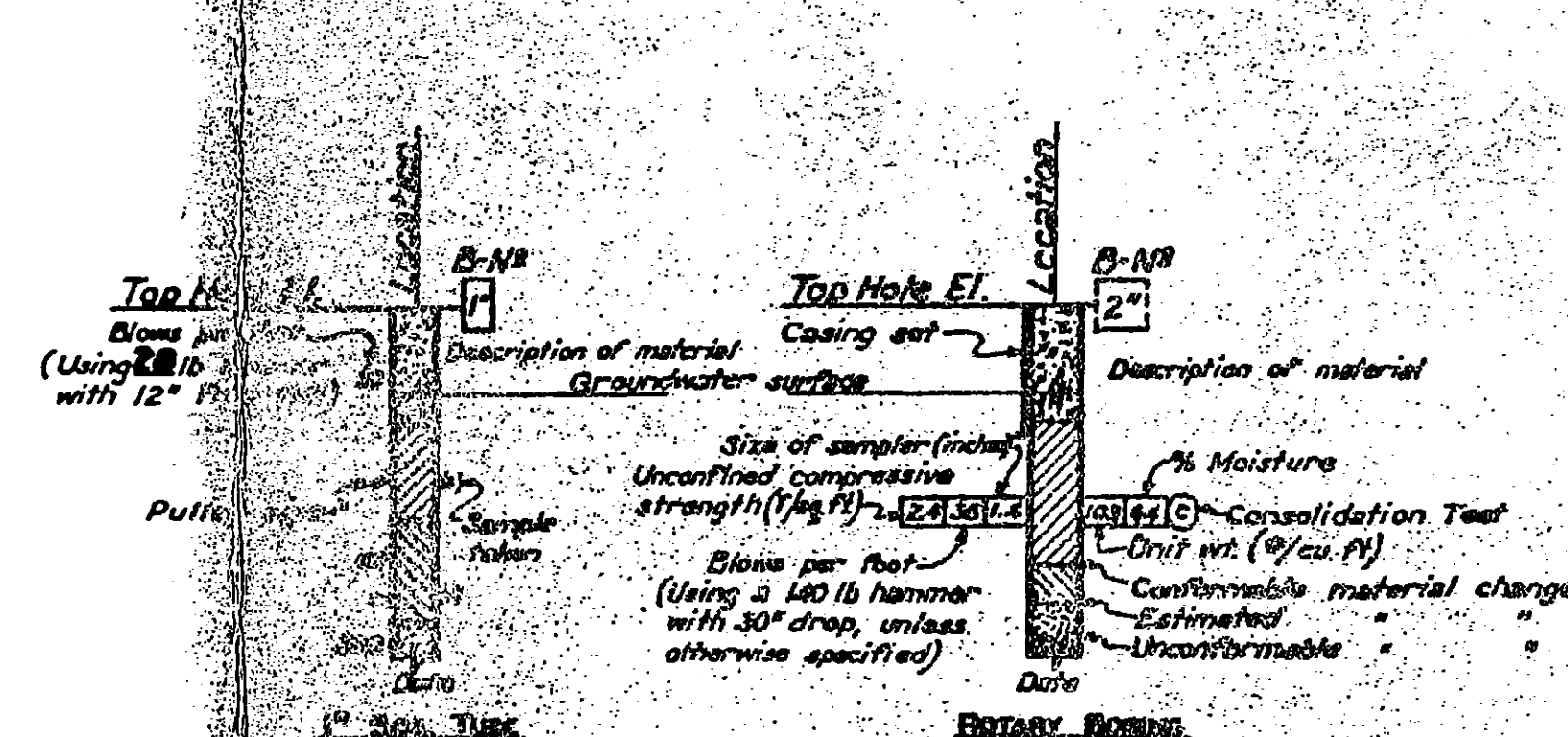


LEGEND OF EARTH MATERIALS

	GRAVEL		SILTY CLAY OR CLAYEY SILT
	SAND		PEAT AND/OR ORGANIC CLAY
	SILT		FILLED MATERIAL
	CLAY		IGNEOUS ROCK
	SANDY CLAY OR CLAYEY SAND		SEDIMENTARY ROCK
	SANDY SILT OR SILTY SAND		METAMORPHIC ROCK

	PLAN OF ANY BORING
	PENETROMETER
	2 1/4" CONE PENETROMETER
	SAMPLER BORING (DRY)
	ROTARY BORING (WET)
	AUGER BORING (DRY)
	JET BORING
	CORE BORING
	TEST PIT

LEGEND OF BORING OPERATIONS



NOTES

THE CONTRACTOR'S ATTENTION IS DIRECTED TO SECTION 2, ARTICLE (C) OF THE STANDARD SPECIFICATIONS AND TO THE SPECIAL PROVISIONS ACCOMPANYING THIS SET OF PLANS. CLASSIFICATION OF EARTH MATERIAL AS SHOWN ON THIS SHEET IS BASED UPON FIELD INSPECTION AND IS NOT TO BE CONSTRUED TO IMPLY MECHANICAL ANALYSIS. PENETROMETER BORINGS HAVING A RATE OF PENETRATION MEASURED IN SECONDS PER FOOT ARE DRIVEN WITH A 140 LB HAMMER-TERRY AIR HAMMER AT 110 PSI.

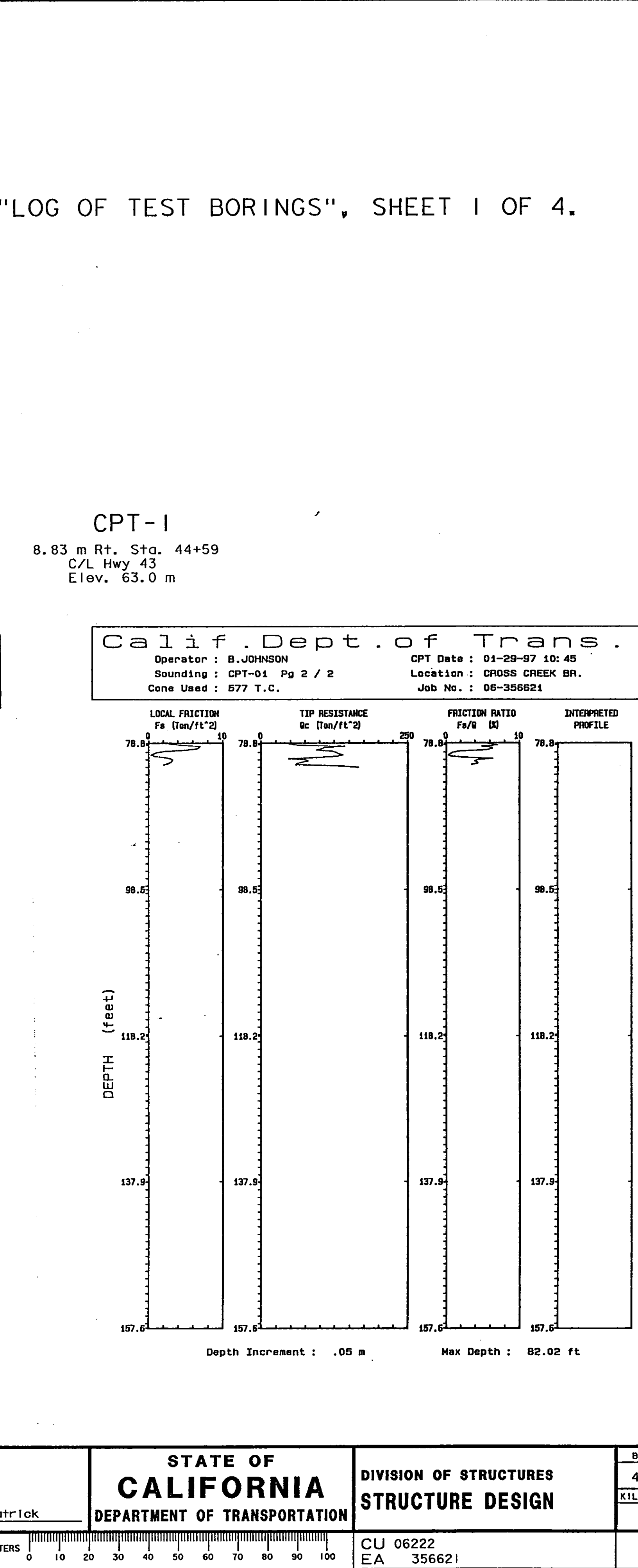
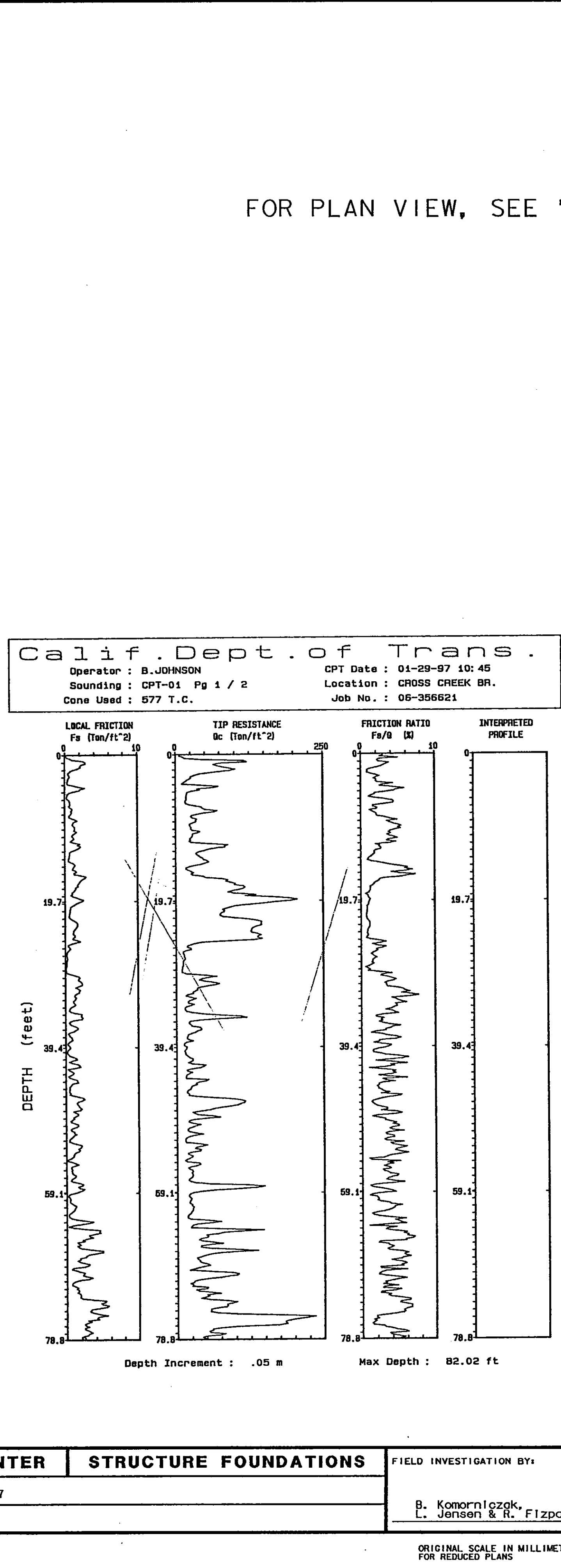
STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

BRIDGE ACROSS EAST BRANCH CROSS CREEK

LOG OF TEST BORINGS

HORIZ. SCALE: 1" = 10'	BRIDGE 45-53	FILE E-45	DRAWING 13
------------------------	--------------	-----------	------------

Consistency Classification for Soils, Legend of Earth Materials, Legend of Boring Operations, and various test data tables.



Project information, engineer details, and summary tables including DIST, COUNTY, ROUTE, KILOMETER POST, SHEET NO., and TOTAL SHEETS.

Consistency Classification for Soils

SPT N-value (blows/30cm)	Consistency
0-4	Very Loose
5-10	Loose
11-20	Medium Dense
21-30	Dense
31-50	Very Dense
>50	Hard

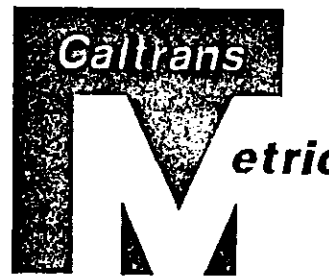
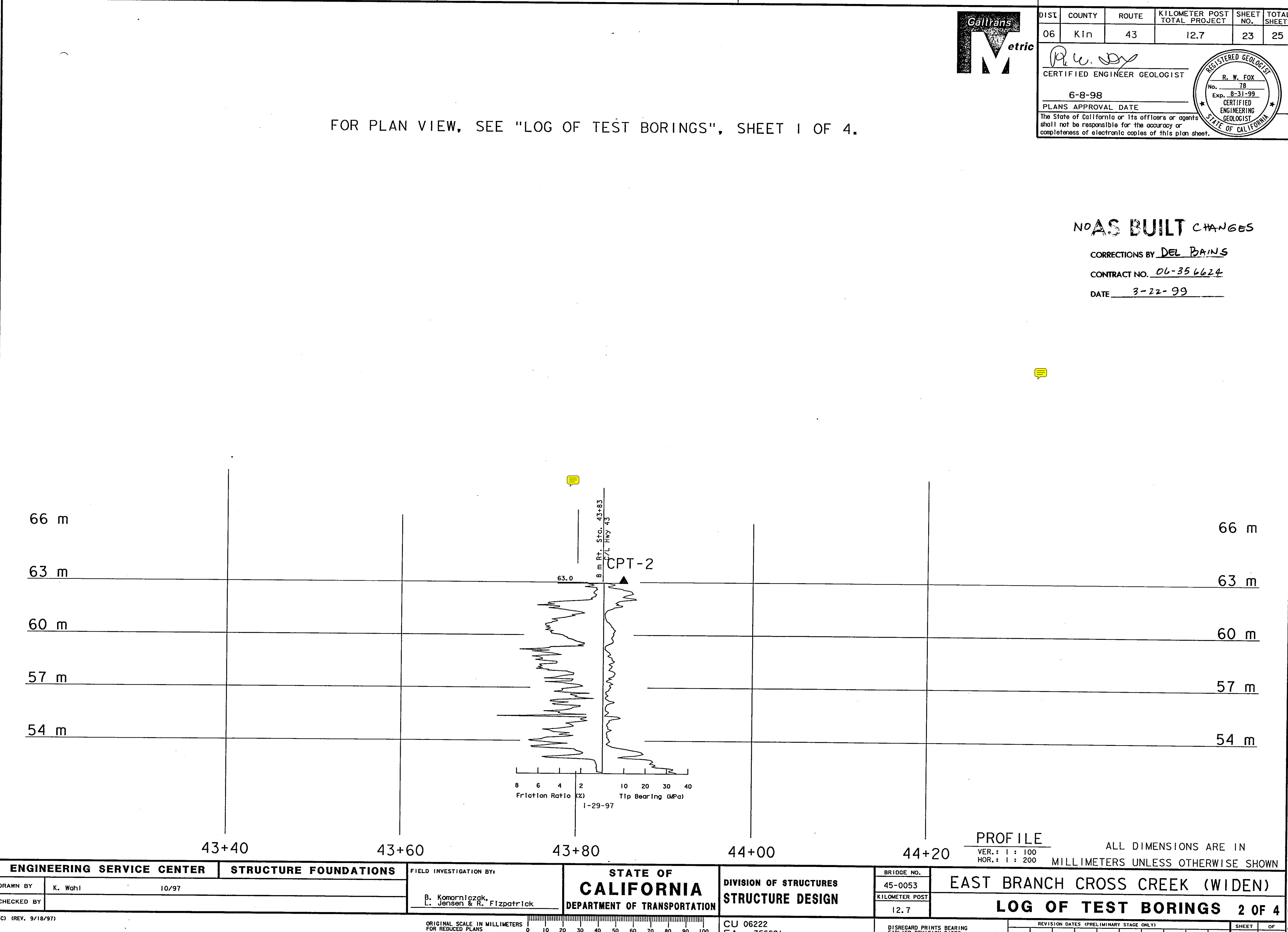
Legend of Earth Materials

Gravel	Clayey Silt
Sand	Peat
Silt	Organic Material
Clay	Fill Material
Sandy Clay or Clayey Sand	Bedrock
Sandy Silt or Silt	Sedimentary Rock
Silty Clay	Metamorphic Rock

Legend of Boring Operations

Sample Boring	Penetration Boring
Auger Boring	Jet Boring
Test Pit	Electronic Cone Penetrometer
Dynamic Cone	

NOTE: Classification of earth material as shown on this sheet is based upon field inspection and is not to be construed to imply mechanical analysis.



DIST	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	Kin	43	12.7	23	25

CERTIFIED ENGINEER GEOLOGIST

PLANS APPROVAL DATE

The State of California or its officers or agents shall not be responsible for the accuracy or completeness of electronic copies of this plan sheet.

REGISTERED GEOLOGIST

R. W. FOX

No. 78

Exp. 8-31-99

CERTIFIED ENGINEER GEOLOGIST

STATE OF CALIFORNIA

NO AS BUILT CHANGES

CORRECTIONS BY DEL BAINS

CONTRACT NO. 06-356624

DATE 3-22-99

TIME PLOTTED => 10:28:39

DATE PLOTTED => 25 OCT 97

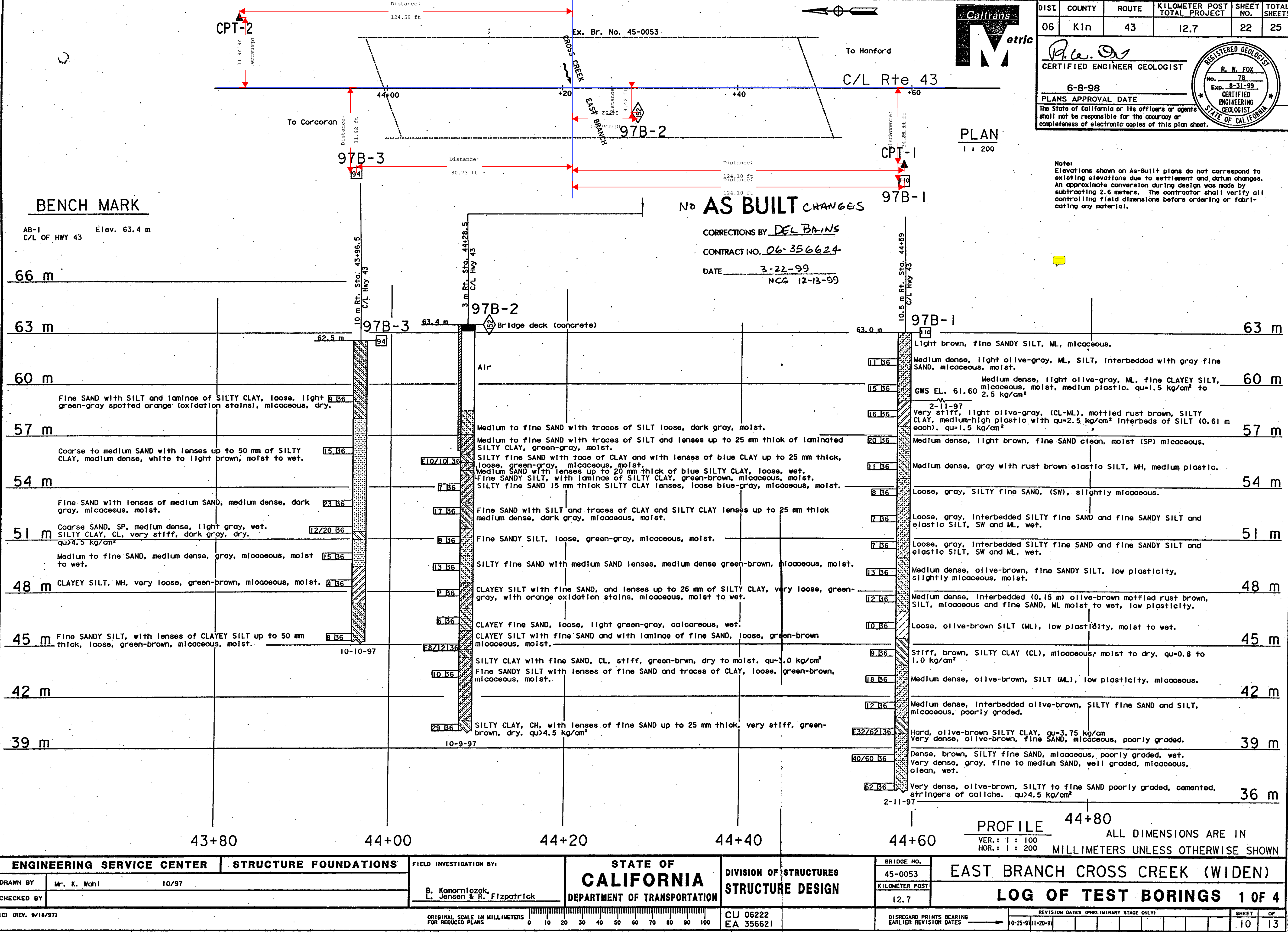
USERNAME => tsbpc1

LEGEND OF BORING OPERATIONS

LEGEND OF EARTH MATERIALS FOR SOILS

CONSISTENCY CLASSIFICATION FOR SOILS

NOTE: Classification of earth material as shown on this sheet is based upon field inspection and is not to be construed to imply mechanical analysis.



DIST 06 COUNTY Kin ROUTE 43 KILOMETER POST TOTAL PROJECT 12.7 SHEET NO. 22 TOTAL SHEETS 25

CERTIFIED ENGINEER GEOLOGIST
R. W. FOX
No. 78
Exp. 8-31-99
6-8-98
PLANS APPROVAL DATE

REGISTERED GEOLOGIST
R. W. FOX
No. 78
Exp. 8-31-99
CERTIFIED ENGINEER GEOLOGIST
STATE OF CALIFORNIA

Notes:
Elevations shown on As-Built plans do not correspond to existing elevations due to settlement and datum changes. An approximate conversion during design was made by subtracting 2.6 meters. The contractor shall verify all controlling field dimensions before ordering or fabricating any material.



DIST.	COUNTY	ROUTE	KILOMETER POST TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
06	KIn	43	12.7	13	25

REGISTERED ENGINEER - CIVIL

6-8-98

PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER

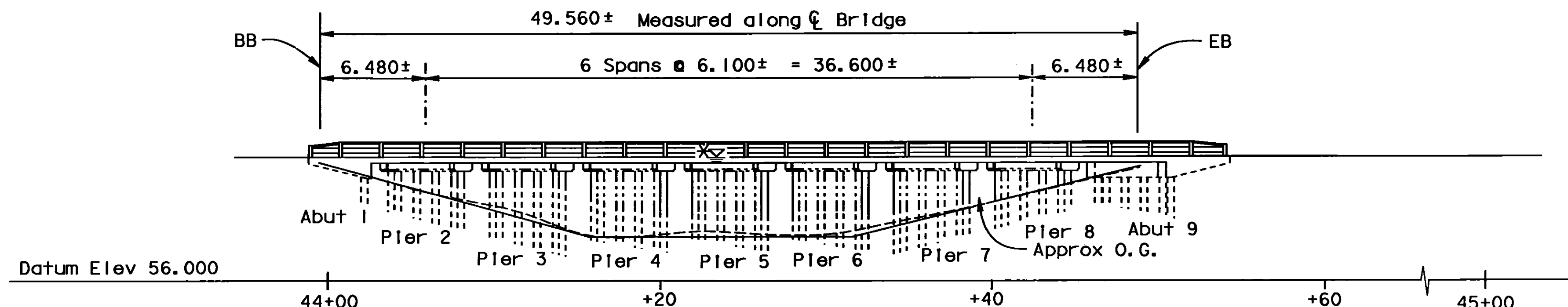
Robert J. Koba

No. 52459

Exp. 12-31-98

CIVIL

STATE OF CALIFORNIA



* For Hydrologic Summary, see "Foundation Plan" sheet

ELEVATION

1: 200

PILE DATA - 406 mm Ø CISS Concrete or 380 mm Ø P/C, P/S Concrete

Location	Pile Type	Design Loading (Service)	Nominal Resistance Compression	Design Tip Elevation	Specified Tip Elevation
Abut 1	CISS Conc	123 kN	267 kN	57.0 (1) 58.7 (2)	57.0
Abut 1	P/C P/S Conc	123 kN	267 kN	57.0 (1) 58.7 (2)	57.0
Pier 2	CISS Conc	249 kN	489 kN	53.4 (1) 57.2 (2)	53.4
Pier 2	P/C P/S Conc	249 kN	489 kN	53.6 (1) 57.2 (2)	53.6
Pier 3	CISS Conc	249 kN	489 kN	52.0 (1) 55.7 (2)	52.0
Pier 3	P/C P/S Conc	249 kN	489 kN	52.3 (1) 55.7 (2)	52.3
Piers 4 to 6	CISS Conc	249 kN	489 kN	51.4 (1) 54.7 (2)	51.4
Piers 4 to 6	P/C P/S Conc	249 kN	489 kN	51.8 (1) 54.7 (2)	51.8
Pier 7	CISS Conc	249 kN	489 kN	52.4 (1) 56.0 (2)	52.4
Pier 7	P/C P/S Conc	249 kN	489 kN	52.7 (1) 56.0 (2)	52.7
Pier 8	CISS Conc	249 kN	489 kN	53.4 (1) 57.5 (2)	53.4
Pier 8	P/C P/S Conc	249 kN	489 kN	53.7 (1) 57.5 (2)	53.7
Abut 9	CISS Conc	123 kN	267 kN	55.4 (1) 59.0 (2)	55.4
Abut 9	P/C P/S Conc	123 kN	267 kN	55.7 (1) 59.0 (2)	55.7

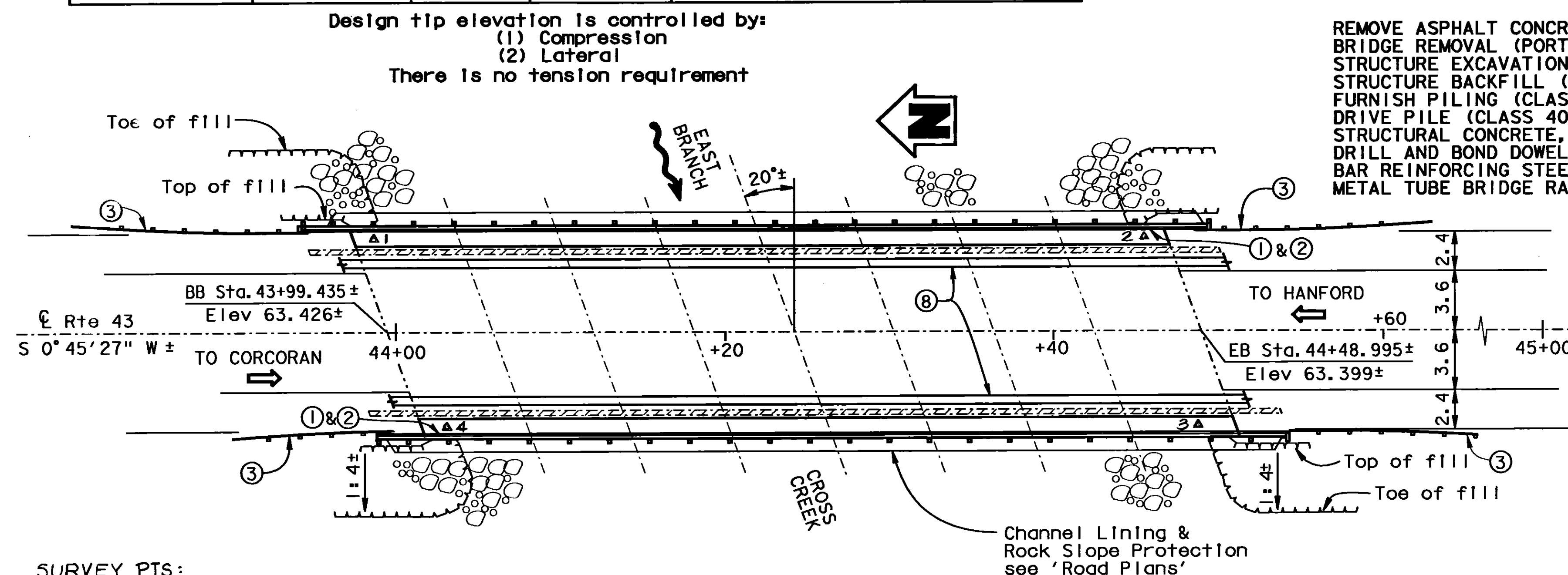
NOTES :

- ① Paint "Bridge NO. 45-0053"
- ② Paint "East Branch Cross Creek"
- ③ MBGR see 'Road Plans'
- ④ Match existing slope
- ⑤ Existing 0.175± AC overlay to be removed
- ⑥ Remove existing railing
- ⑦ Match existing soffit elevation at left edge of deck, see "Slab Reinforcement Layout" sheet
- ⑧ Temporary Railing (Type K), see 'Road Plans'

Indicates Barrier Rail & Concrete Removal

For 'General Notes' see "Slab Reinforcement Details" sheet

QUANTITIES
REMOVE ASPHALT CONCRETE SURFACING
BRIDGE REMOVAL (PORTION)
STRUCTURE EXCAVATION (BRIDGE)
STRUCTURE BACKFILL (BRIDGE)
FURNISH PILING (CLASS 400)
DRIVE PILE (CLASS 400)
STRUCTURAL CONCRETE, BRIDGE
DRILL AND BOND DOWEL
BAR REINFORCING STEEL (BRIDGE)
METAL TUBE BRIDGE RAILING (TYPE 18)



SURVEY PTS:

- POINT 1: 0.7m to face of Abut 1, 0.54m from E.O.D.
POINT 2: 1.2m from face of Abut 9, ≈ 0.54m from E.O.D.
POINT 3: 0.72m from face of Abut 9, ≈ 0.52m from E.O.D.
POINT 4: ≈ 0.7m from face of Abut 1, ≈ 0.5m from E.O.D.

PLAN

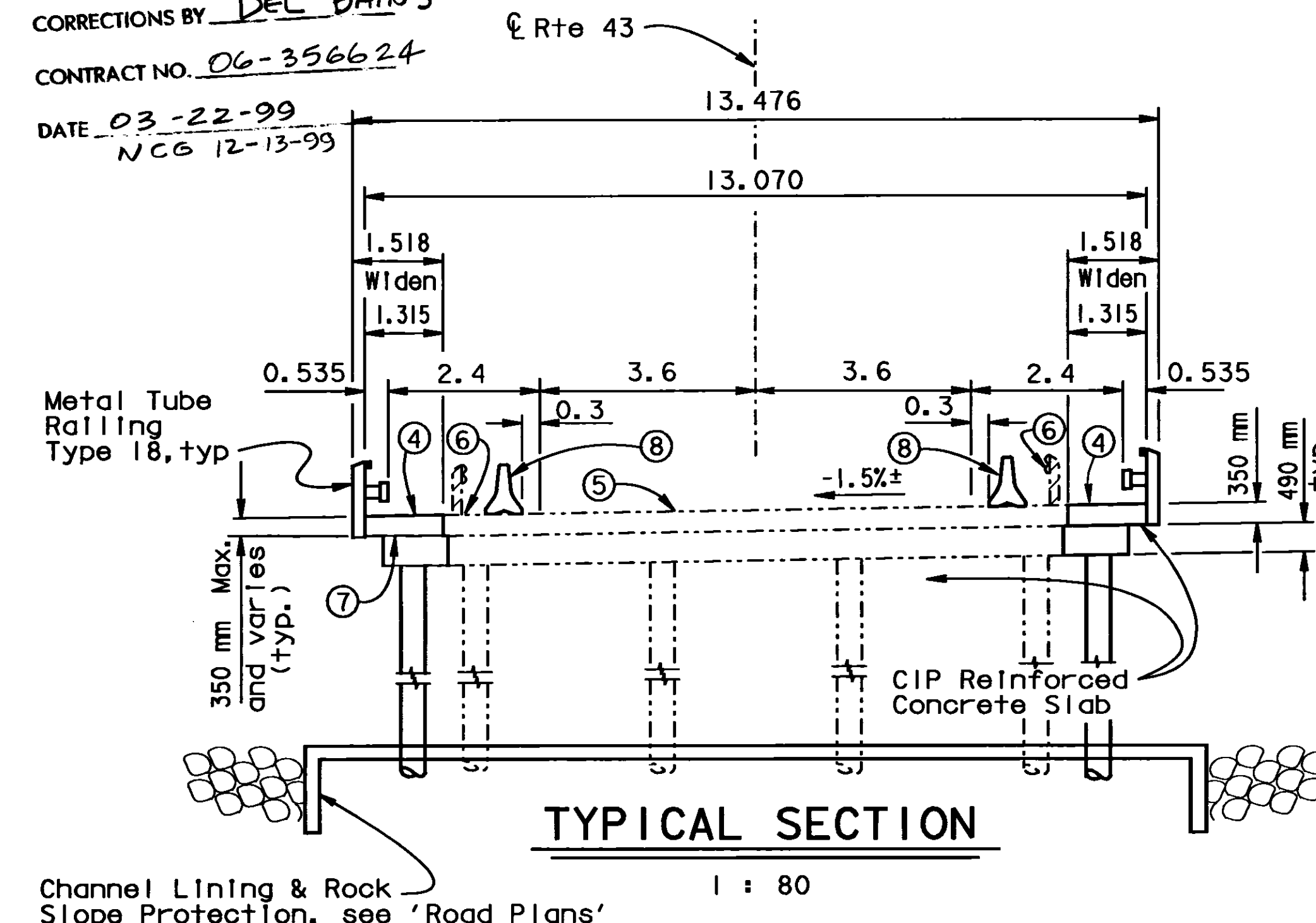
1: 200

AS BUILT

CORRECTIONS BY DEL BAINS

CONTRACT NO. 06-356624

DATE 03-22-99
NCG 12-13-99



TYPICAL SECTION

1: 80

INDEX TO PLANS


LUMP	SUM	SHEET NO.	TITLE
481	m ²	1	General Plan
23	m ³	2	Foundation Plan
13	m ³	3	Abutment Details
167	m ³	4	Pier Details
18	EA	5	Slab Reinforcement Layout
66	m ³	6	Slab Reinforcement Details
177	m ³	7	Slab Bridge Pier Details
10,600	kg	8	Metal Tube Railing - Type 18 Sheet 1 of 2
112	m	9	Metal Tube Railing - Type 18 Sheet 2 of 2
		10	Log of Test Borings 1 of 4
		11	Log of Test Borings 2 of 4
		12	Log of Test Borings 3 of 4
		13	Log of Test Borings 4 of 4

STANDARD PLANS dated July 1997

A10A	Abbreviations
A62C	Limits of Payment for Excavation and Backfill-Bridge
B0-1	Bridge Details
B0-3	Bridge Details

NOTE:
THE CONTRACTOR SHALL VERIFY ALL CONTROLLING FIELD DIMENSIONS BEFORE ORDERING OR FABRICATING ANY MATERIAL.

ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

 I-26-98 DESIGN ENGINEER	DESIGN	BY Lorl Ewens	CHECKED Hector Romero	LOAD FACTOR DESIGN	LIVE LOADING: HS20-44 AND ALTERNATIVE AND PERMIT DESIGN LOAD		STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION	DIVISION OF STRUCTURES STRUCTURE DESIGN 3	BRIDGE NO.	EAST BRANCH CROSS CREEK (WIDEN)					
	DETAILS	BY Janie Chlubna	CHECKED Hector Romero	LAYOUT	BY Lorl Ewens	CHECKED Hector Romero			45-0053	KILOMETER POST 12.7	GENERAL PLAN				
	QUANTITIES	BY Vincent T Gastoni	CHECKED Beau Trinh	SPECIFICATIONS	BY	PLANS AND SPECS COMPARED									

STRUCTURES DESIGN GENERAL PLAN SHEET (METRIC) (REV. 4/15/97)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS

CU 06
EA 356621

DISREGARD PRINTS BEARING EARLIER REVISION DATES

REVISION DATES (PRELIMINARY STAGE ONLY)

1-8-98

10-23-97

10-25-97

10-27-97

11-3-97

11-24-97

11-25-97

12-1-97

1-6-97

SHEET 13

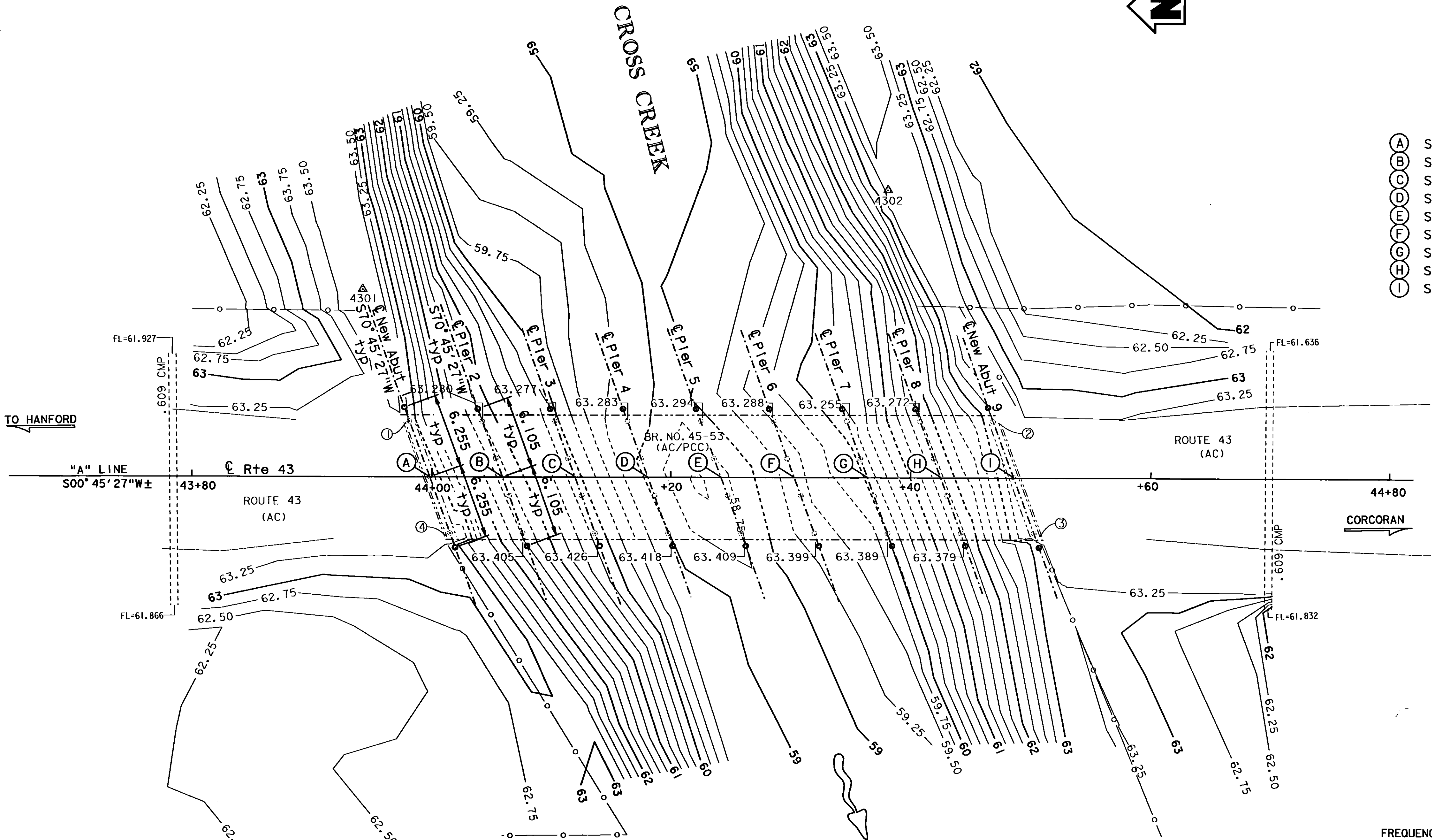
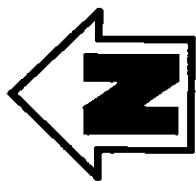
OF 13



DIST	COUNTY	ROUTE	KILOMETER TOTAL PROJECT	POST SHEET NO.	TOTAL SHEETS
06	Kin	43	12.7	14	25

R. K. Kaba
1-26-98
REGISTERED ENGINEER - CIVIL
6-8-98
PLANS APPROVAL DATE
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REGISTERED PROFESSIONAL ENGINEER
Robert J. Kaba
No. 52459
Exp. 12-31-98
CIVIL
STATE OF CALIFORNIA



- (A) Sta 43+99.760± Abut 1
- (B) Sta 44+05.905± Pier 2
- (C) Sta 44+12.015± Pier 3
- (D) Sta 44+18.115± Pier 4
- (E) Sta 44+24.215± Pier 5
- (F) Sta 44+30.315± Pier 6
- (G) Sta 44+36.415± Pier 7
- (H) Sta 44+42.515± Pier 8
- (I) Sta 44+48.670± Abut 9

NO AS BUILT CHANGES
CORRECTIONS BY DEL BAINS
CONTRACT NO. 06-356624
DATE 3-22-99
NCG 12-13-99

SURVEY CONTROL
PT 4301
FD 1" IP W/CT PLUG
15.611 LT "A" 43+94.143
ELEV. 63.627

PT 4302
FD 1" IP W/CT PLUG
24.073 LT "A" 44+37.996
ELEV. 63.344

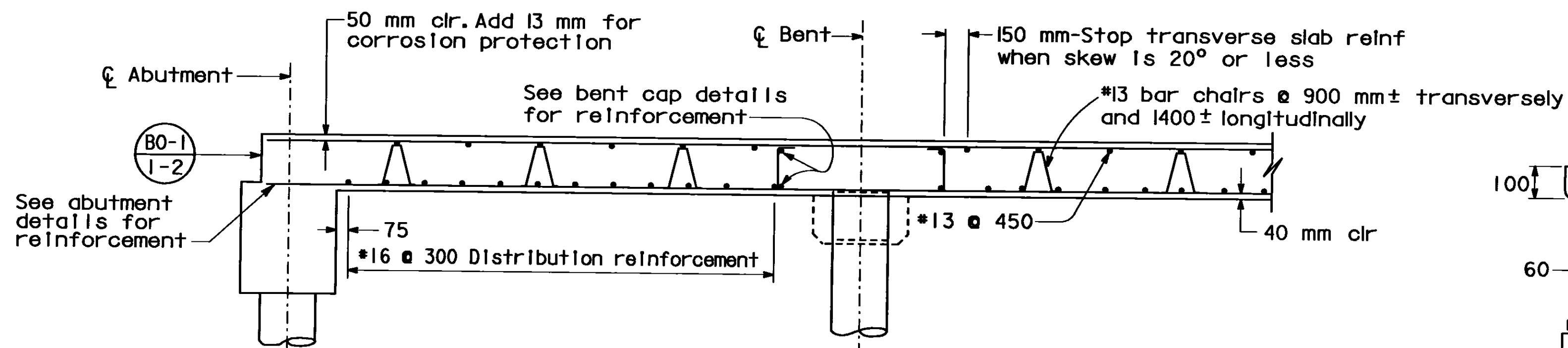
HYDROLOGIC SUMMARY			
DRAINAGE AREA:		3657	SQUARE KILOMETERS
FREQUENCY (YEARS)	DESIGN FLOOD	50	
	BASE FLOOD	100	
	OVERTOPPING FLOOD	50	
DISCHARGE (CUBIC METERS PER SECOND)		400	544
WATER SURFACE ELEV. AT BRIDGE (METERS)		64.0	64.3
			64.0

FLOOD PLAIN DATA ARE BASED UPON INFORMATION AVAILABLE WHEN THE PLANS WERE PREPARED AND ARE SHOWN TO MEET FEDERAL REQUIREMENTS. THE ACCURACY OF SAID INFORMATION IS NOT WARRANTED BY THE STATE AND INTERESTED OR AFFECTED PARTIES SHOULD MAKE THEIR OWN INVESTIGATIONS.

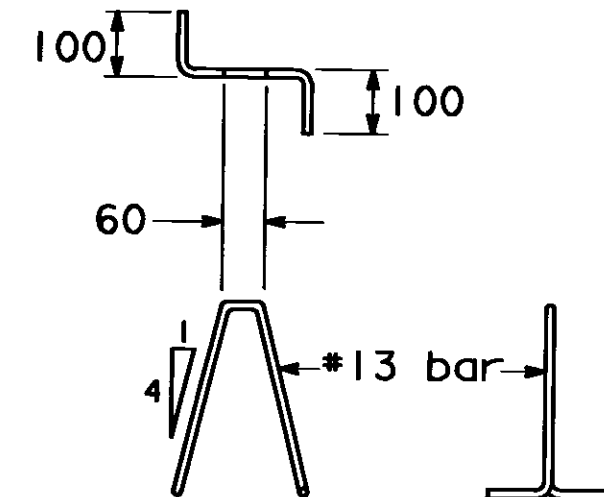
NOTE:
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ALL DIMENSIONS ARE IN METERS UNLESS OTHERWISE SHOWN

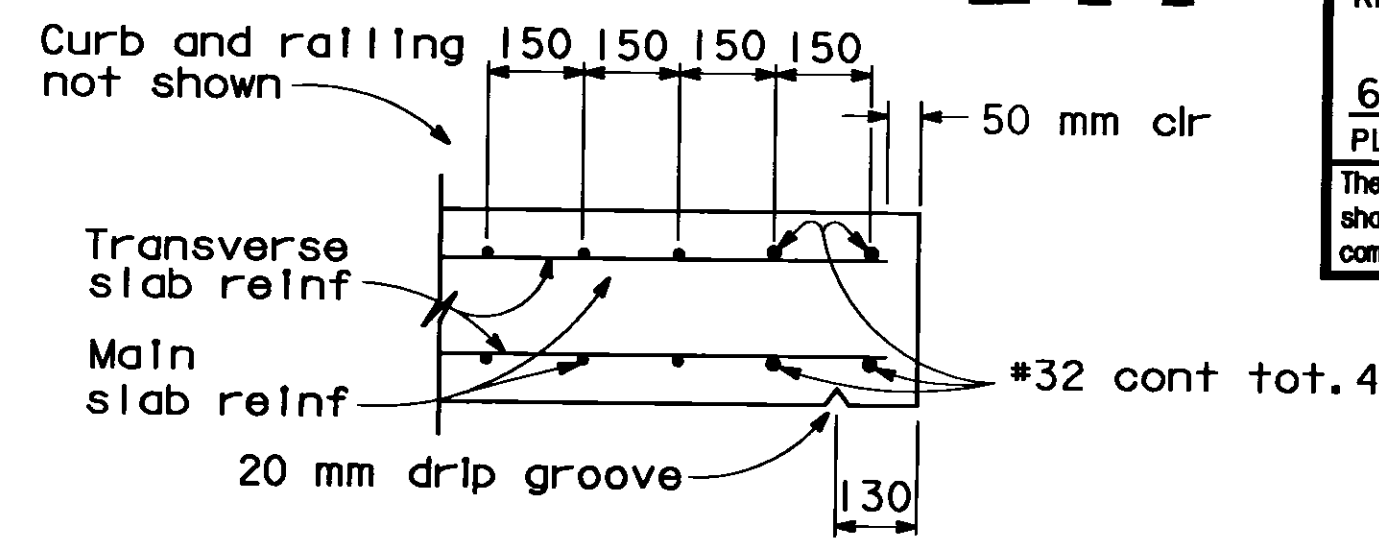
PRELIMINARY INVESTIGATION SECTION										DESIGN	BY	CHECKED									
SCALE		VERT. DATUM		PHOTOGRAMMETRY		AS OF:		DRAWN		BY		CHECKED									
1:200		HORIZ. DATUM		SURVEYED		BY		TRACED		BY		CHECKED									
ALIGNMENT TIES		DISTRICT		FIELD CHECKED		BY		CHECKED		BY		CHECKED									
STRUCTURES FOUNDATION PLAN SHEET (METRIC) (REV. 6/9/97)										Lorl Ewens		Hector Romero									
										Janie Chlubna		Hector Romero									
										Vincent T Gaston		Beau Trinh									
										ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS											
										0 10 20 30 40 50 60 70 80 90 100											
										CU 06											
										EA 356621											
										BRIDGE NO. 45-0053											
										KILOMETER POST 12.7											
										DISREGARD PRINTS BEARING EARLIER REVISION DATES											
										REVISION DATES (PRELIMINARY STAGE ONLY)											
										10-17-97 10-21-97 10-23-97 10-27-97											
										SHEET 2 OF 13											



LONGITUDINAL SECTION



BAR CHAIR DETAIL



EDGE OF SLAB DETAILS

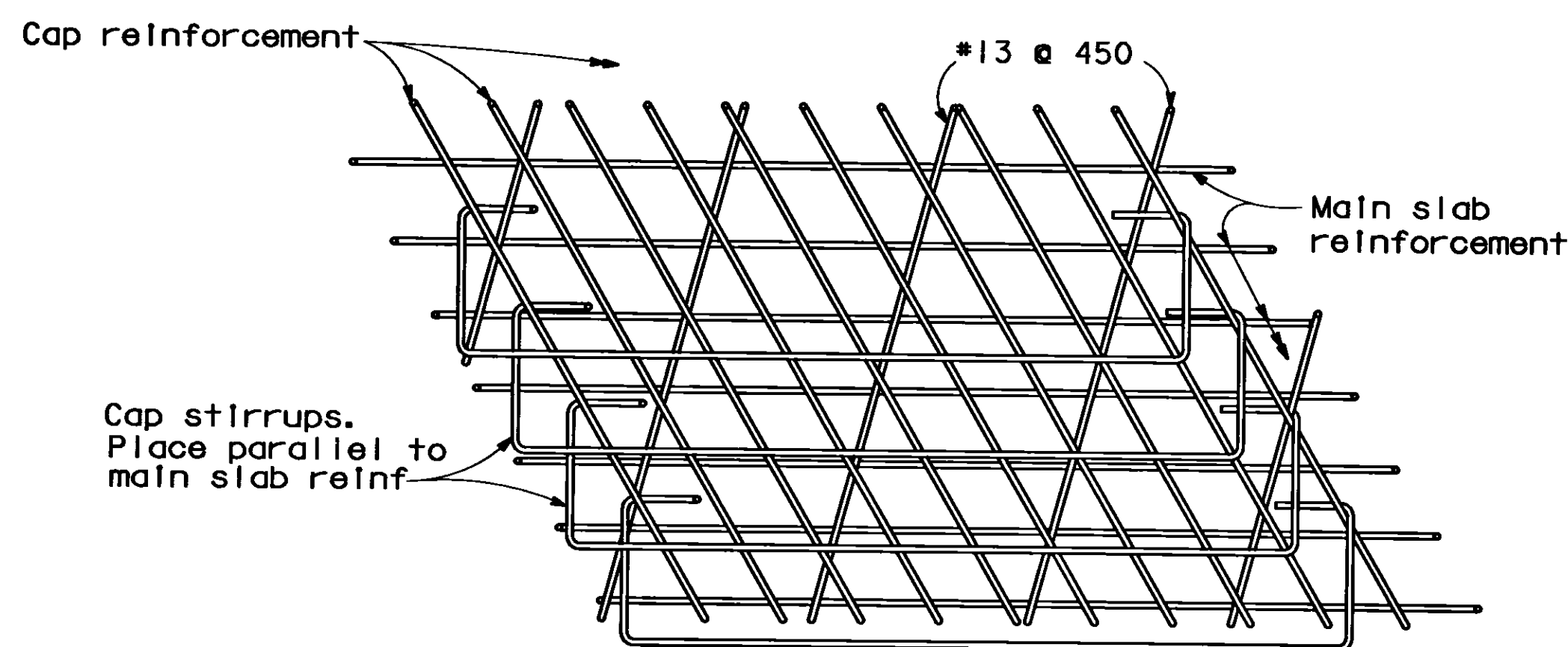
BAR SPLICE LENGTH								
Bar size	*13	*16	*19	*22	*25	*29	*32	*36
All bars, except top bars in spans over 7 m	580	710	860	990	1140	1730	1930	2160
Top bars in spans over 7 m	580	710	860	1350	1520	1960	2460	3050

REINFORCEMENT NOTES:

Splices in top main bars to be located near center of span.
 Splices in bottom main bars to be located near bent.
 Spacing of all transverse bars is measured along ϕ roadway.
 Skew 0° to 20°: Place all transverse bars parallel to bent.
 Skew over 20°: Place transverse slab bars perpendicular to ϕ bridge. See details at right and below.

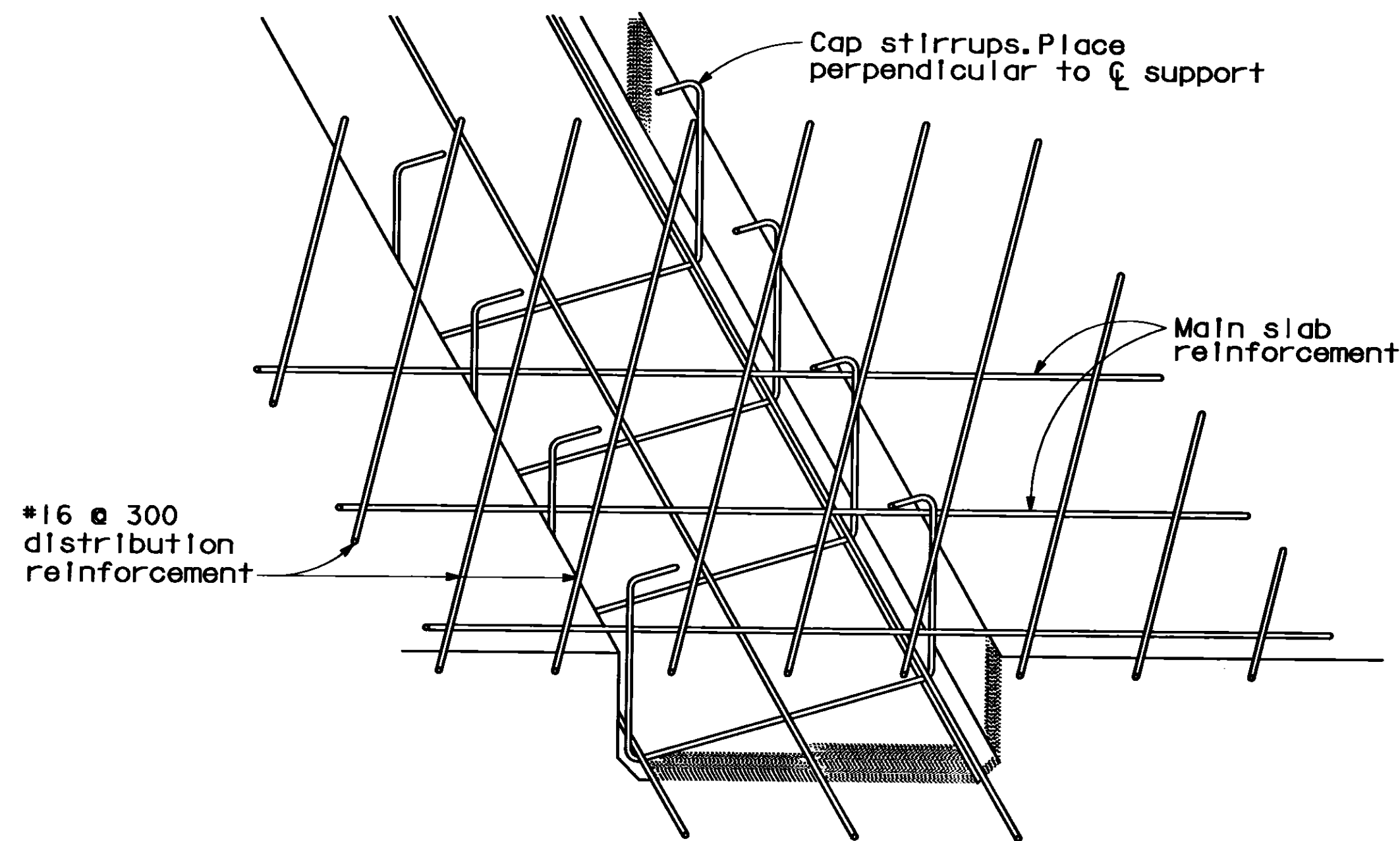
**GENERAL NOTES
LOAD FACTOR DESIGN**

Design: Bridge Design Specifications (1983 AASHTO with Interims and revisions by CALTRANS)
 Dead load: Includes 1680 Pa for future wearing surface.
 Live loading: HS20-44 and alternative and permit design load.
 Reinforced concrete: $f_y = 420$ MPa
 $f'_c = 22$ MPa
 $n = 9$
 Seismic Loading: Maximum Horizontal Acceleration = 0.2g
 Depth to bedrock > 46m

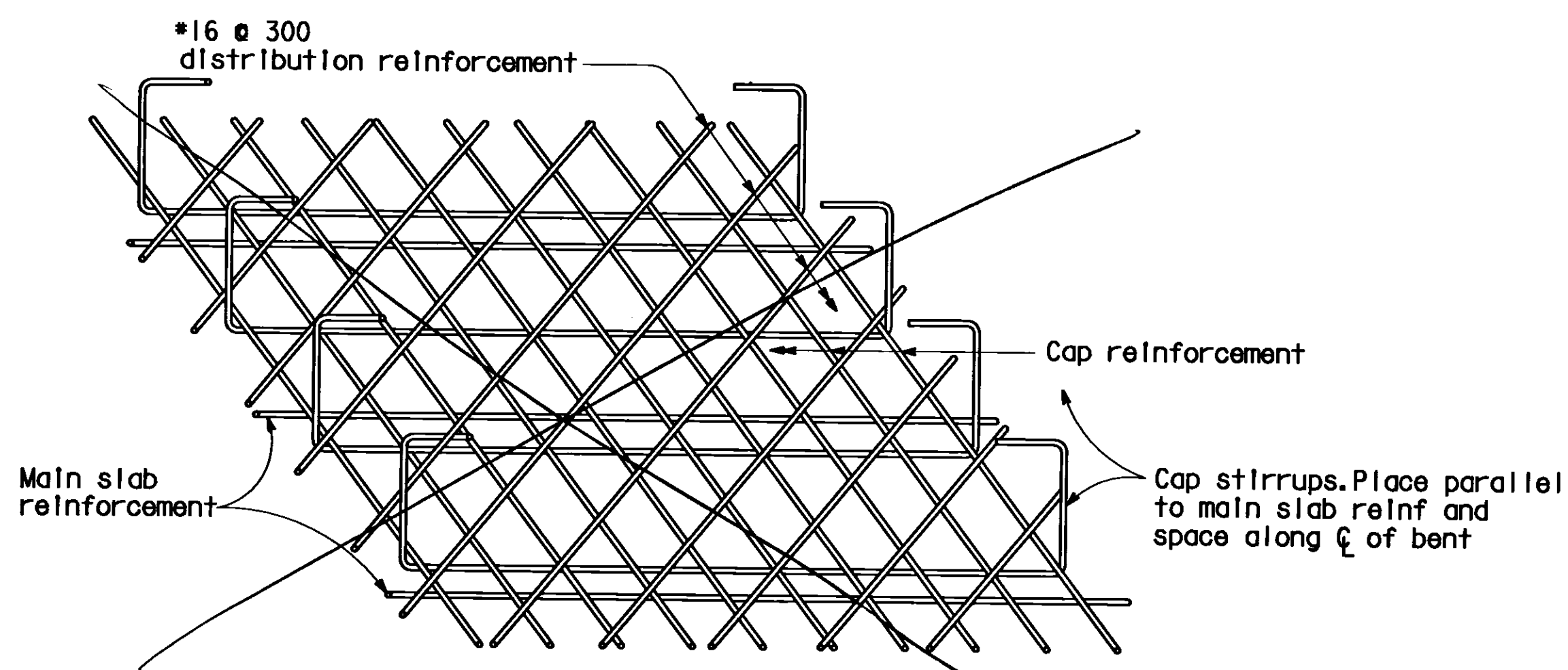


TOP SLAB REINFORCEMENT AT PIER

Note: View for main span over 7 m.
 Bar placement similar for spans under 7 m.



DROPPED CAP



FLUSH CAP


BOTTOM SLAB REINFORCEMENT AT PIER

AS BUILT

CORRECTIONS BY DEL BAINS
 CONTRACT NO. 06-356624
 DATE 3-22-99
 NCG 12-13-99

SPECIAL DETAILS

NO SCALE
 ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SHOWN

STANDARD DRAWING					
FILE NO. X8 12-55	DESIGN	BY <i>LY. LEE</i>	CHECKED	<i>T. FARNAN</i>	APPROVAL RECOMMENDED BY  DESIGN SUPERVISOR
DRAWING DATE REVISED	DETAILS	BY <i>R. YEE</i>	CHECKED	<i>T. FARNAN</i>	
SUBMITTED BY <i>R.S. WATANABE</i>					

Changed Note

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION

DIVISION OF STRUCTURES
 STRUCTURE DESIGN **3**

BRIDGE NO.
 45-0053
 KILOMETER POST
 12.7

EAST BRANCH CROSS CREEK (WIDEN)

SLAB REINFORCEMENT DETAILS

DS OSD 2147A (METRIC) (REV. 2/25/97)

ORIGINAL SCALE IN MILLIMETERS FOR REDUCED PLANS

CU 06
 EA 356621

DISREGARD PRINTS BEARING EARLIER REVISION DATES
 USERNAME => frienard

REVISION DATES (PRELIMINARY STAGE ONLY)
 0-20-97 10-25-97 10-27-97 1-8-98

SHEET OF
 6 13

XS1255.DGN

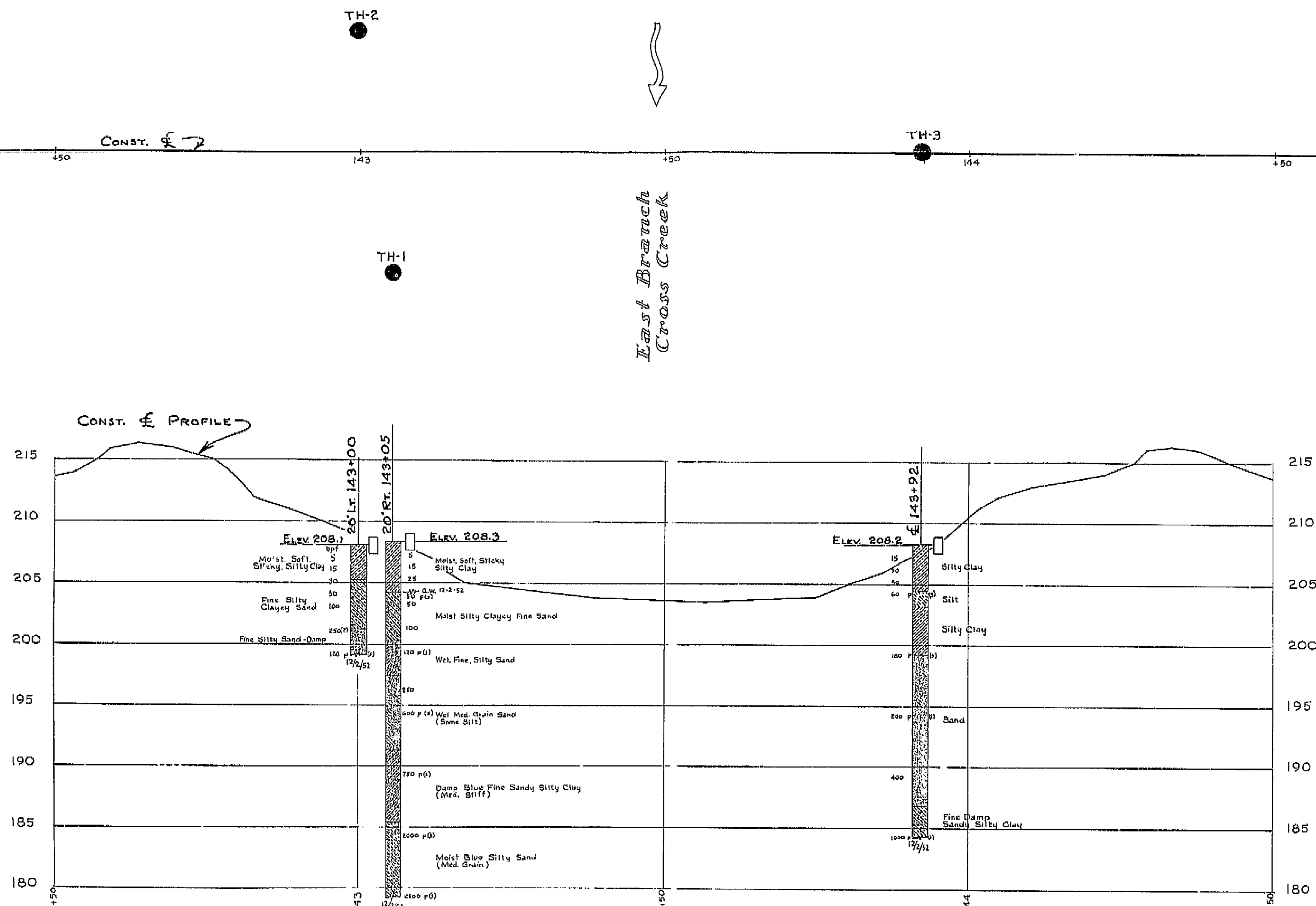
BRIDGE DEPARTMENT

FIELD STUDY	BY
DRAWN	BY <i>Ellis</i> 12/6/52
CHECKED	BY <i>Ellis</i>

Approval Recommended by *W. H. Moore*
 Estimating Committee
Approved by Estimating Committee
Approved by Planning Committee

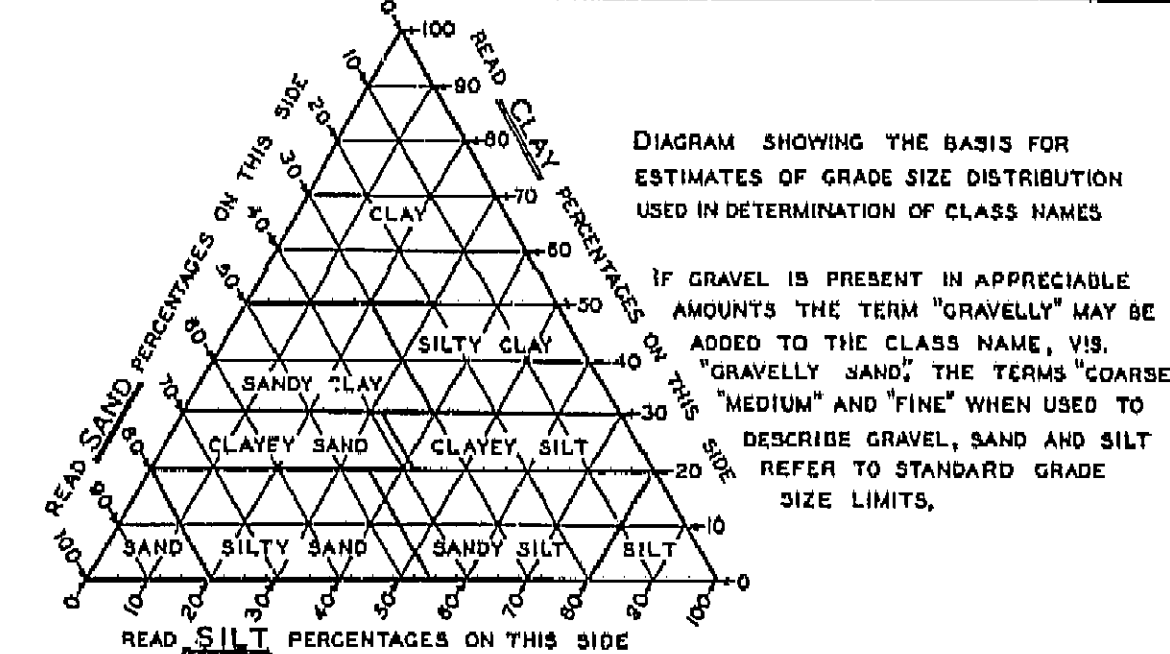
AS BUILT PLANS
Contract No. 54-6708
Date Completed _____
Document No. 60001110

B.M. #14.1
R.R. SPIKE IN POWER POLE
31' RT, 141+44
ELEV. 214.305

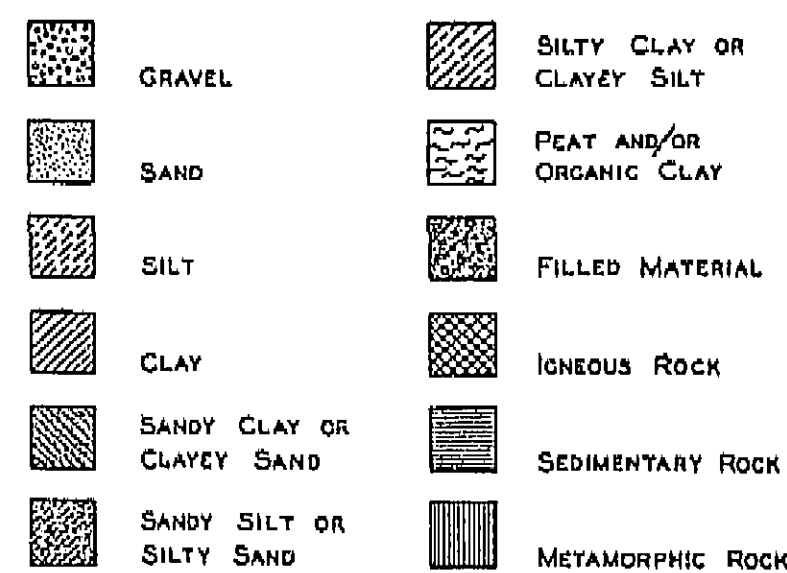


B.M. #15.1
R.R. SPIKE IN POWER POLE
24' RT. 151+31
ELEV. 213.316

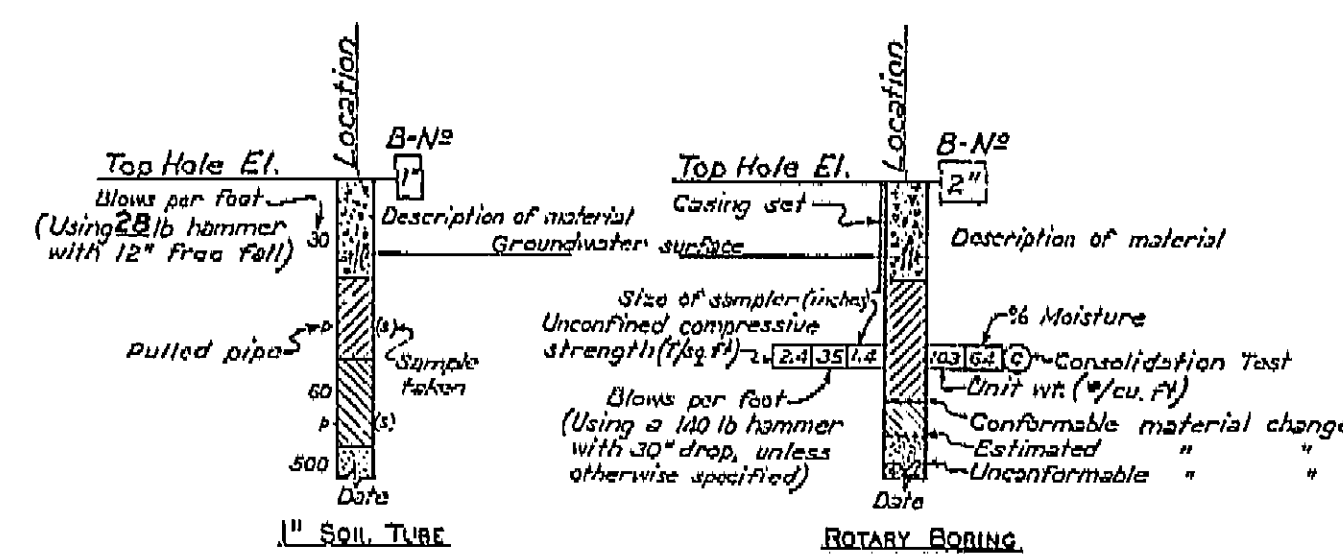
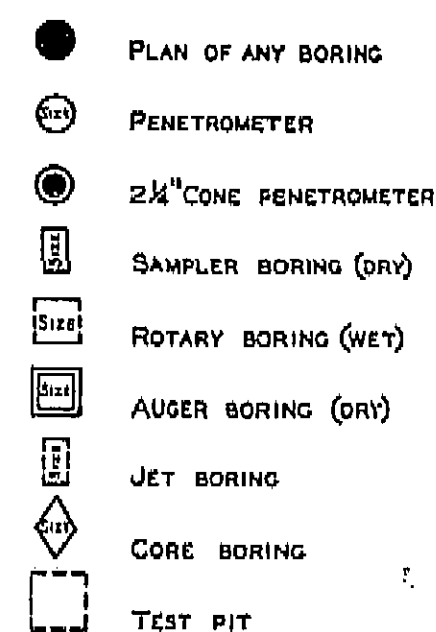
THIS SET OF PLANS HAS BEEN CORRECTED TO
CORRESPOND TO THE "AS BUILT" PRINTS DATA
ENGINEER _____ AS SUBMITTED BY RESIDENT
TRACINGS CORRECTED BY: _____ DATE: _____



LEGEND OF EARTH MATERIALS



LEGEND OF BORING OPERATIONS



NOTES

THE CONTRACTOR'S ATTENTION IS DIRECTED TO SECTION 2, ARTICLE (C) OF THE STANDARD SPECIFICATIONS AND TO THE SPECIAL PROVISIONS ACCOMPANYING THIS SET OF PLANS. CLASSIFICATION OF EARTH MATERIAL AS SHOWN ON THIS SHEET IS BASED UPON FIELD INSPECTION AND IS NOT TO BE CONSTRUED TO IMPLY MECHANICAL ANALYSIS. PENETROMETER BORINGS HAVING A RATE OF PENETRATION MEASURED IN SECONDS PER FOOT ARE DRIVEN WITH A N#2 MCKINNEY-TERRY AIR HAMMER AT 115 PSI.

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

BRIDGE ACROSS EAST BRANCH CROSS CREEK

LOG OF TEST BORINGS

SCALE: HORIZ. 1" = 10'	BRIDGE 45-53	FILE E-45	DRAWING C-3077-5
------------------------	--------------	-----------	------------------

I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

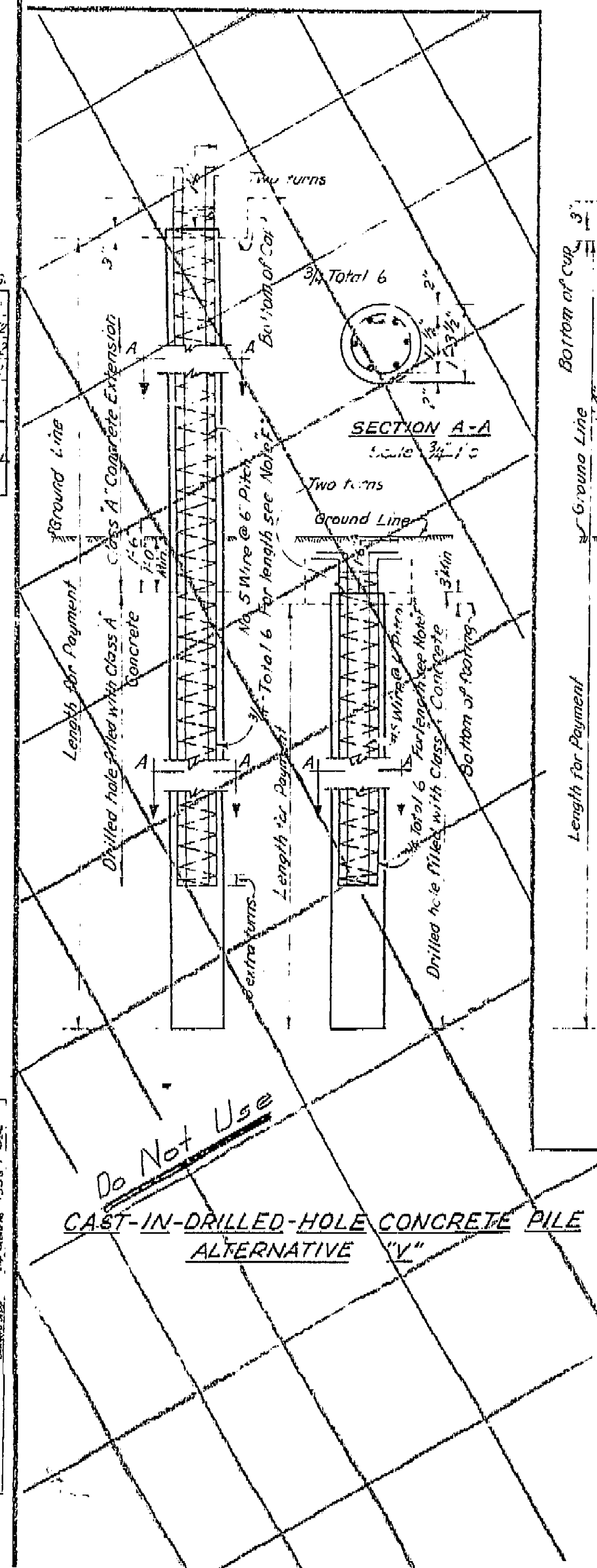
	Initial	Date
Design	11. K	6-5
Detail	R A	6-5
Check	AM	6-5
Quant		
Check		

Supervised:

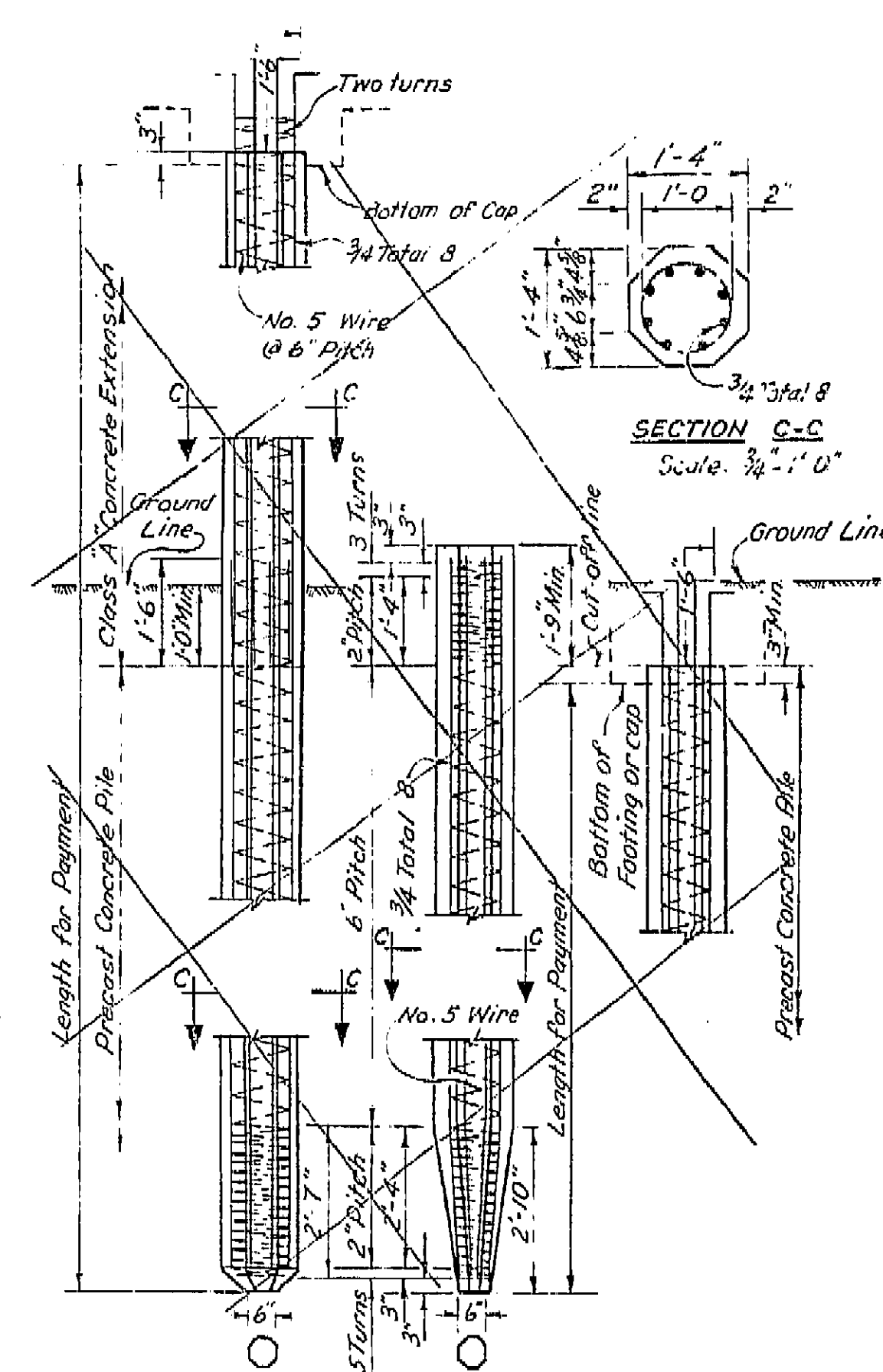
W. J. Jackson

BRIDGE DEPARTMENT

Squad

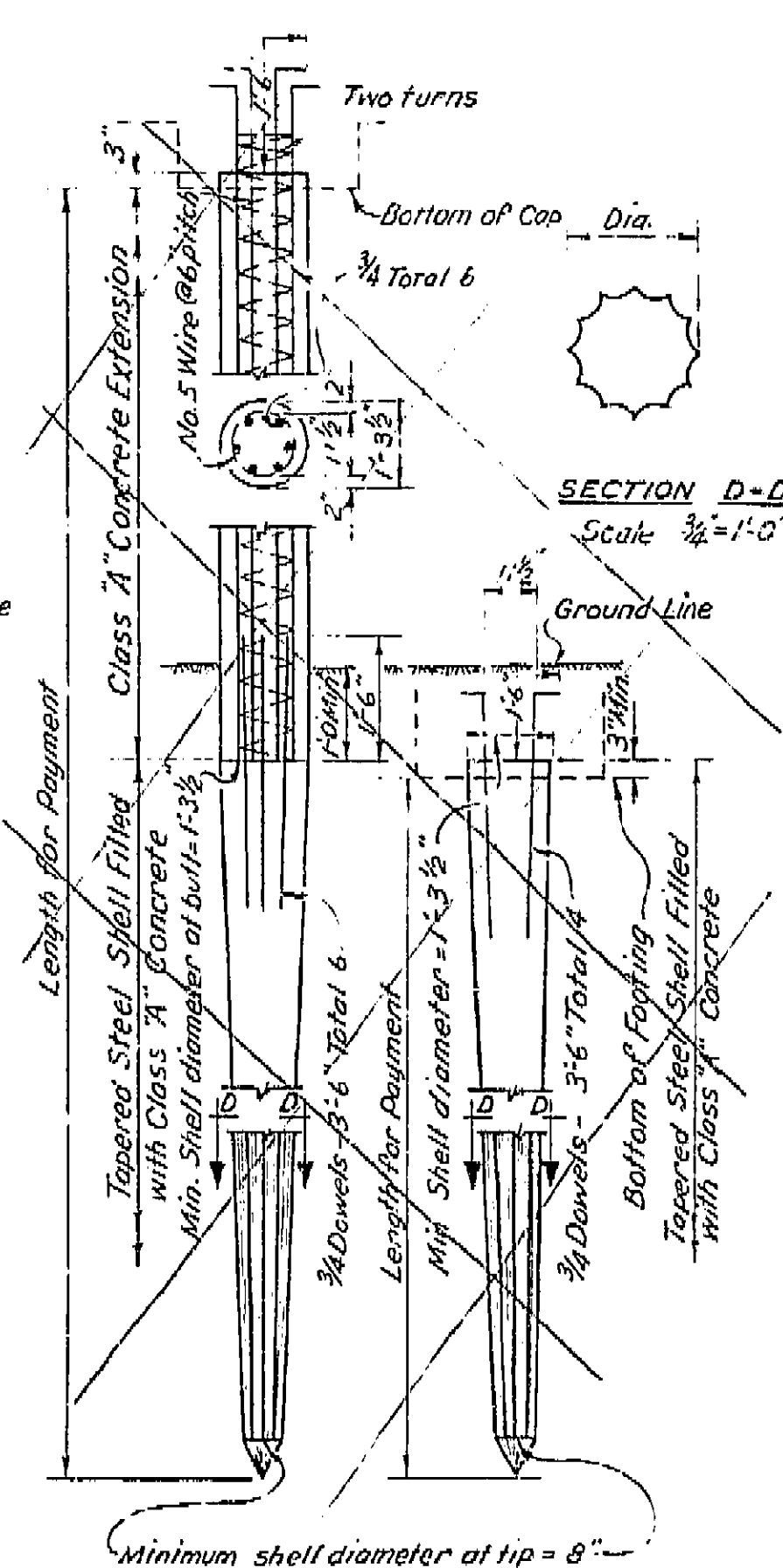
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CAST-IN-PLACE CONCRETE PILE
ALTERNATIVE "W"

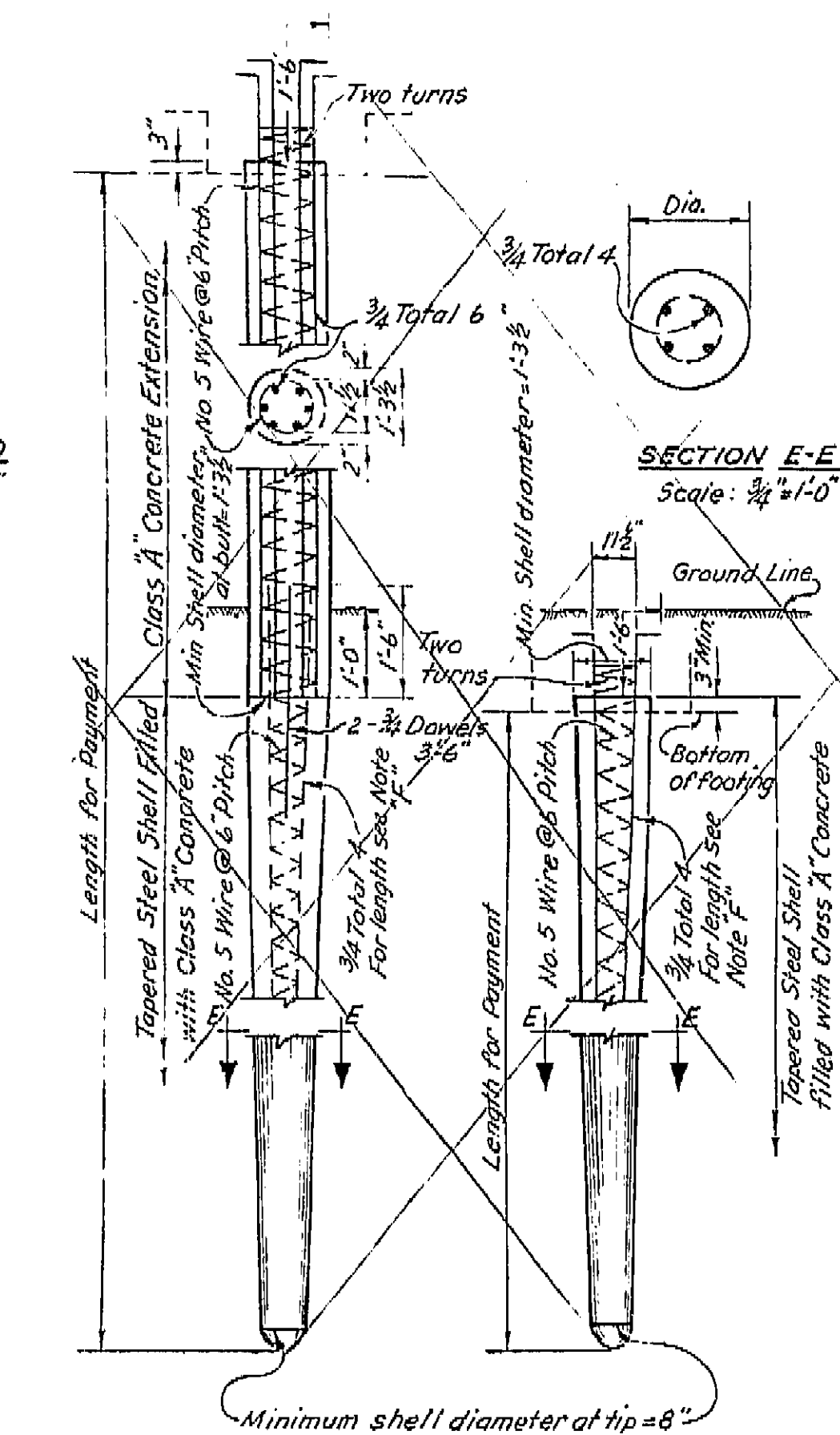


ALTERNATIVE TIP

PRECAST CONCRETE PILE
ALTERNATIVE "X"



CAST-IN-PLACE CONCRETE PILE
ALTERNATIVE "Y"



CAST-IN-PLACE CONCRETE PILE
ALTERNATIVE "Z"

THIS SET OF PLANS HAS BEEN CORRECTED TO
CORRESPOND TO THE "AS BUILT" PRINTS DATED
_____, AS SUBMITTED BY RESIDENT
ENGINEER _____
TRACINGS CORRECTED BY: _____ DATE: _____

Note F Length of $\frac{3}{4}$ round bars, measured below ground line or bottom of footing, to be either $\frac{1}{2}$ of estimated penetration or 12' whichever is the greater. For total length of bars, add extension or splice.

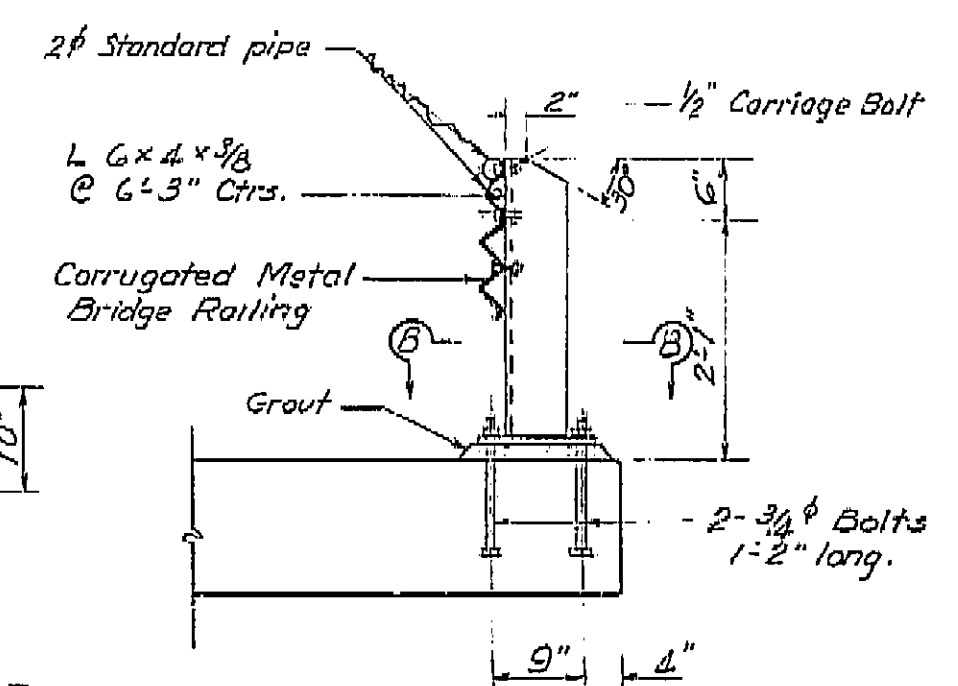
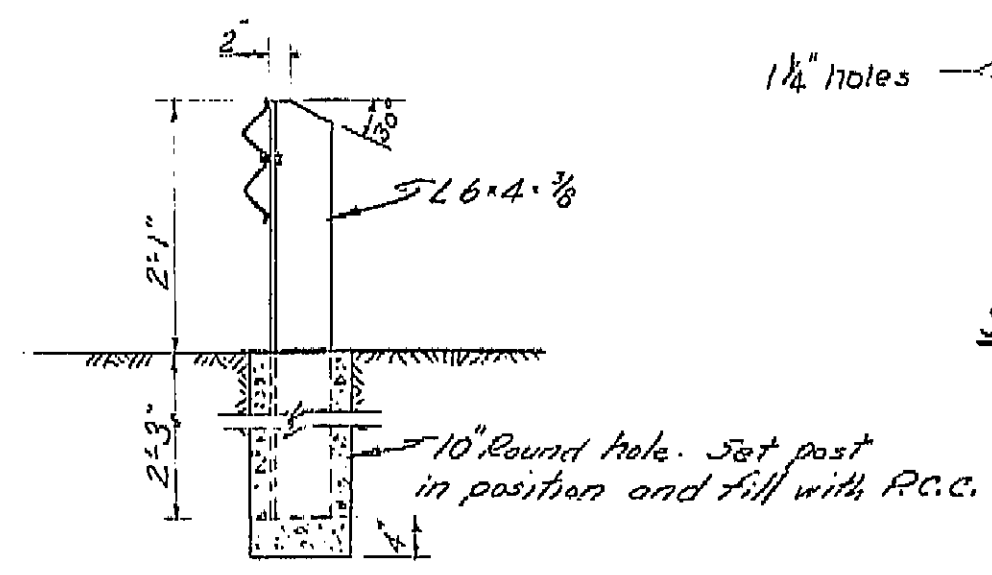
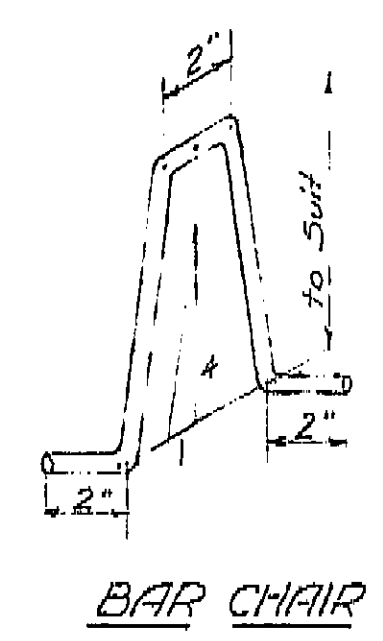
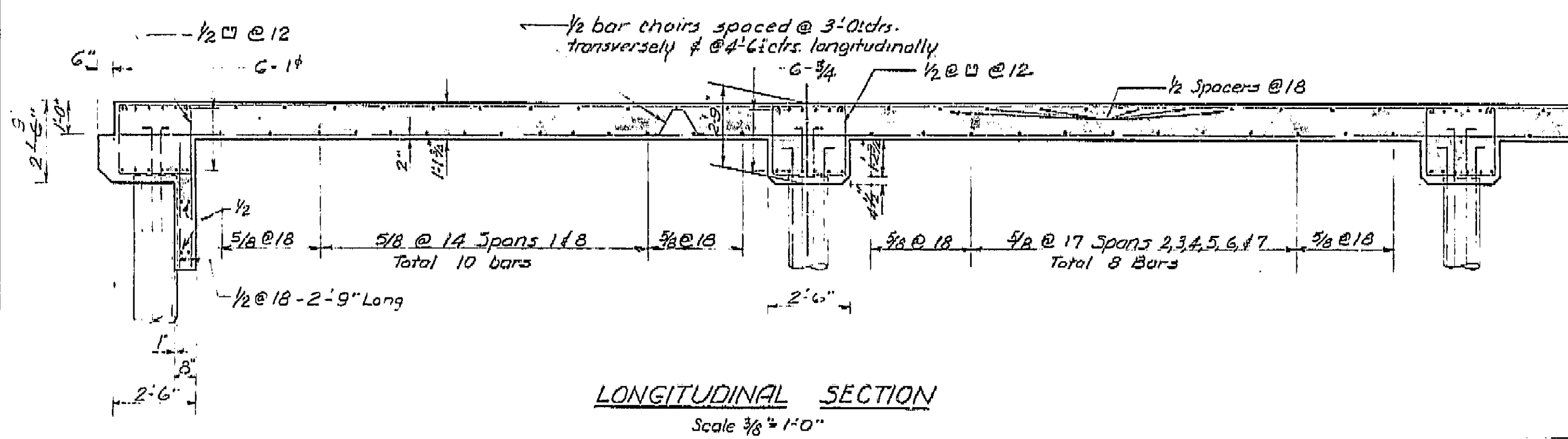
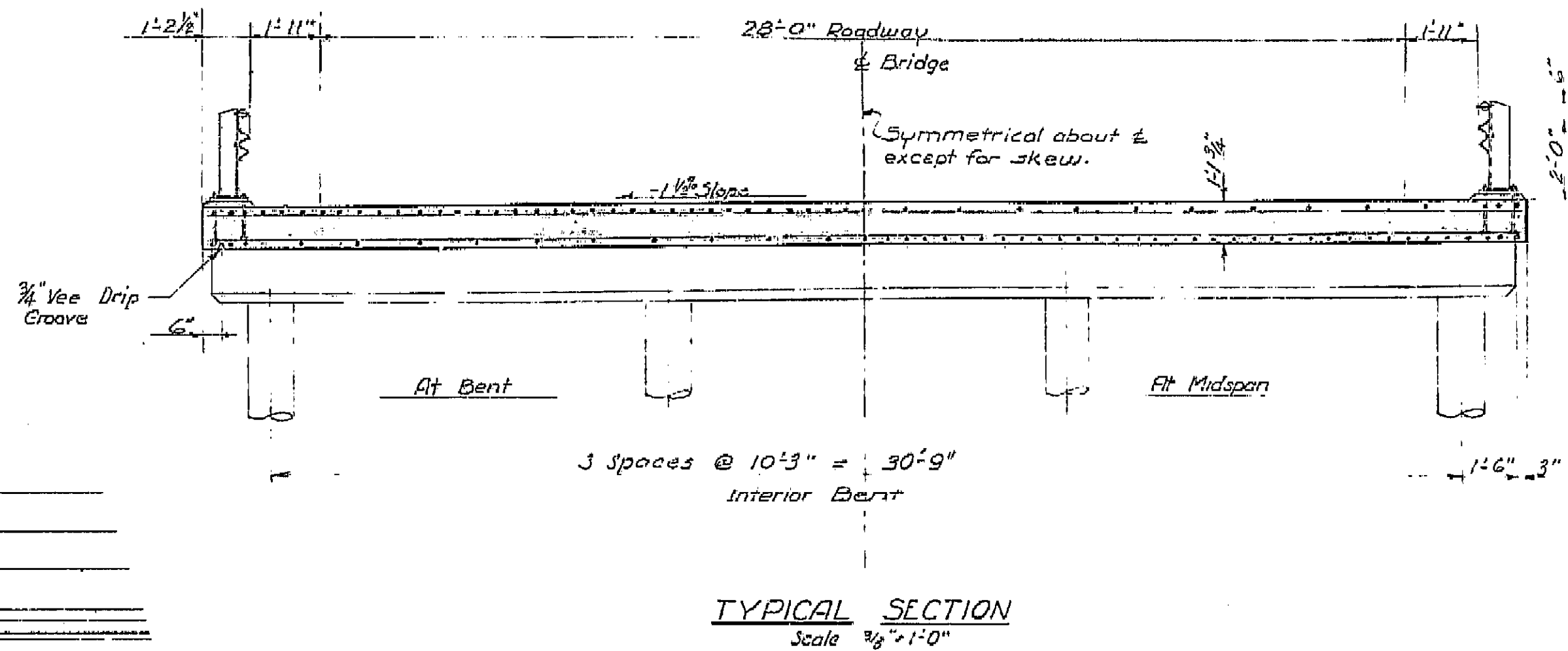
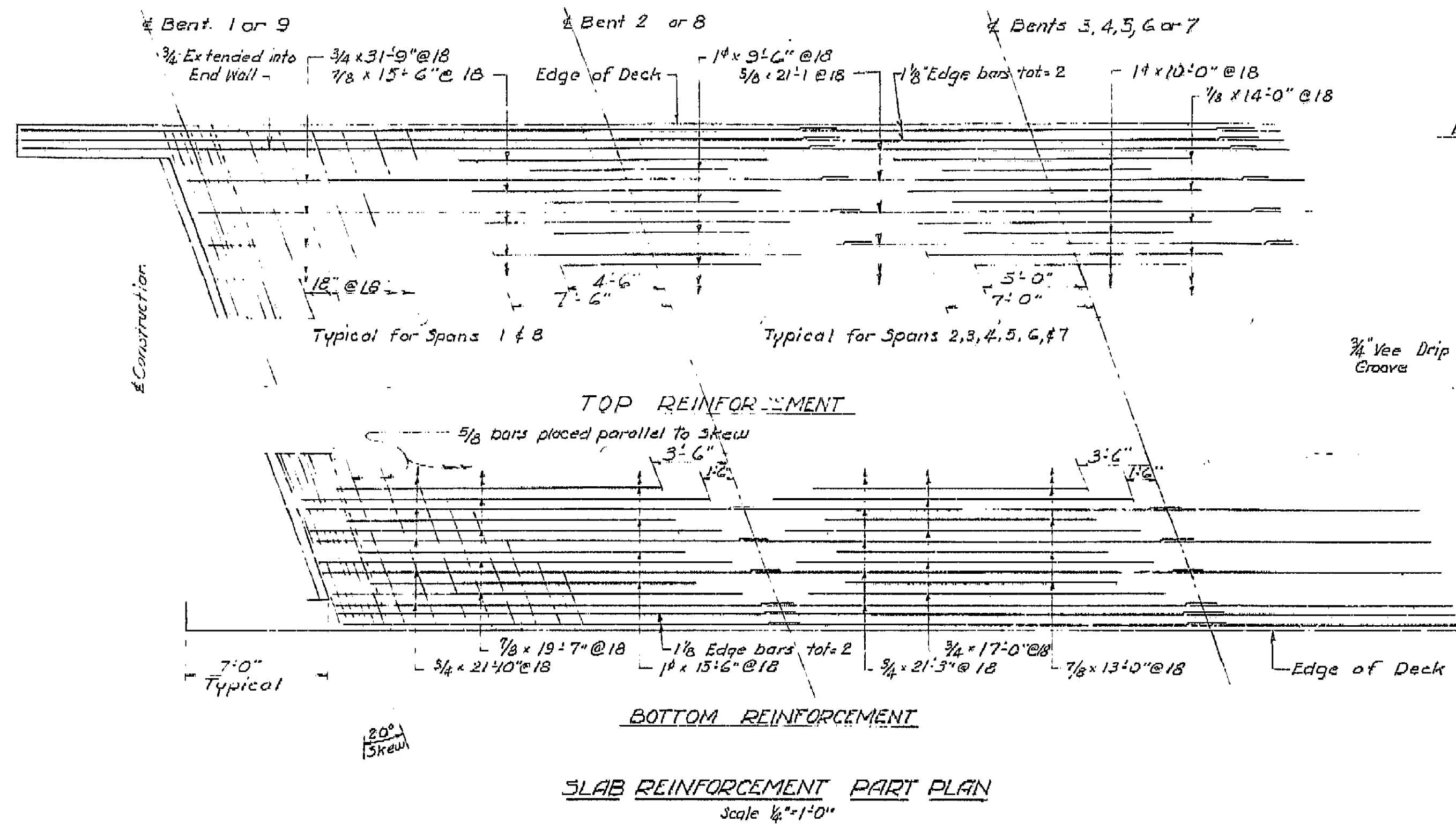
AS BUILT PLANS
Contract No. 54-GTC8
Date Completed _____
Document No. 60001110

STATE OF CALIFORNIA			
DEPARTMENT OF PUBLIC WORKS			
DIVISION OF HIGHWAYS			
BRIDGE ACROSS EAST BRANCH CROSS CREEK			
PILE DETAILS			
Excludes Noted SCALE: 1/2" = 1'-0"	BRIDGE 45-53	FILE X 10-10	DRAWING 3077-4

Dist.	County	Route	Section	Sheet No.	Total Sheets
VI	Kin	435	B	3	5

Stewart Mitchell
BRIDGE ENGINEER CIVIL AND STRUCTURAL ENGINEER—LICENSE #438

DATE APPROVED June 22, 1953



THIS SET OF PLANS HAS BEEN CORRECTED TO
CORRESPOND TO THE "AS BUILT" PRINTS DATED
_____, AS SUBMITTED BY RESIDENT
ENGINEER _____
TRACINGS CORRECTED BY: _____ DATE: _____

AS BUILT PLANS
Contract No. 54-GTC8
Date Completed _____
Document No. 60001110

GUARD RAIL DETAIL
Scale $\frac{3}{4}"=1'-0"$
(To be constructed by others)

SECTION B-B
Scale $\frac{3}{4}"=1'-0"$

POST DETAIL
Scale $\frac{3}{4}"=1'-0"$

STATE OF CALIFORNIA
DEPARTMENT OF PUBLIC WORKS
DIVISION OF HIGHWAYS

BRIDGE ACROSS EAST BRANCH CROSS CREEK

DECK DETAILS

SCALE <i>As Noted</i>	BRIDGE <i>45-53</i>	FILE	DRAWING <i>C-5077-3</i>
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0001 1004141000 NO D 2077.2121

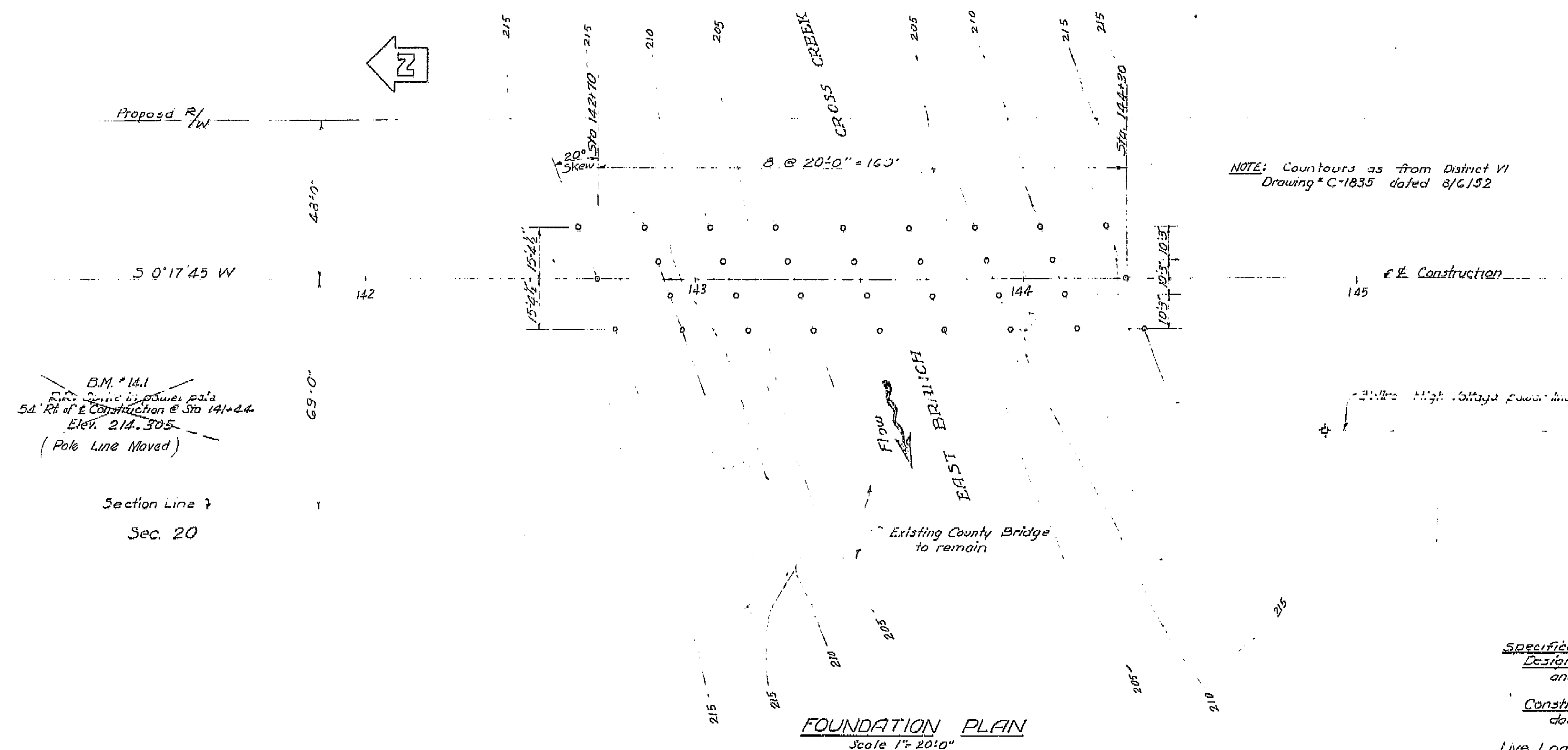
I HEREBY CERTIFY THAT THIS IS A TRUE AND ACCURATE COPY OF THE ABOVE DOCUMENT TAKEN UNDER MY DIRECTION AND CONTROL ON THIS DATE IN SACRAMENTO, CALIFORNIA PURSUANT TO AUTHORIZATION BY THE DIRECTOR OF PUBLIC WORKS.

MICROFILM

BRIDGE DEPARTMENT

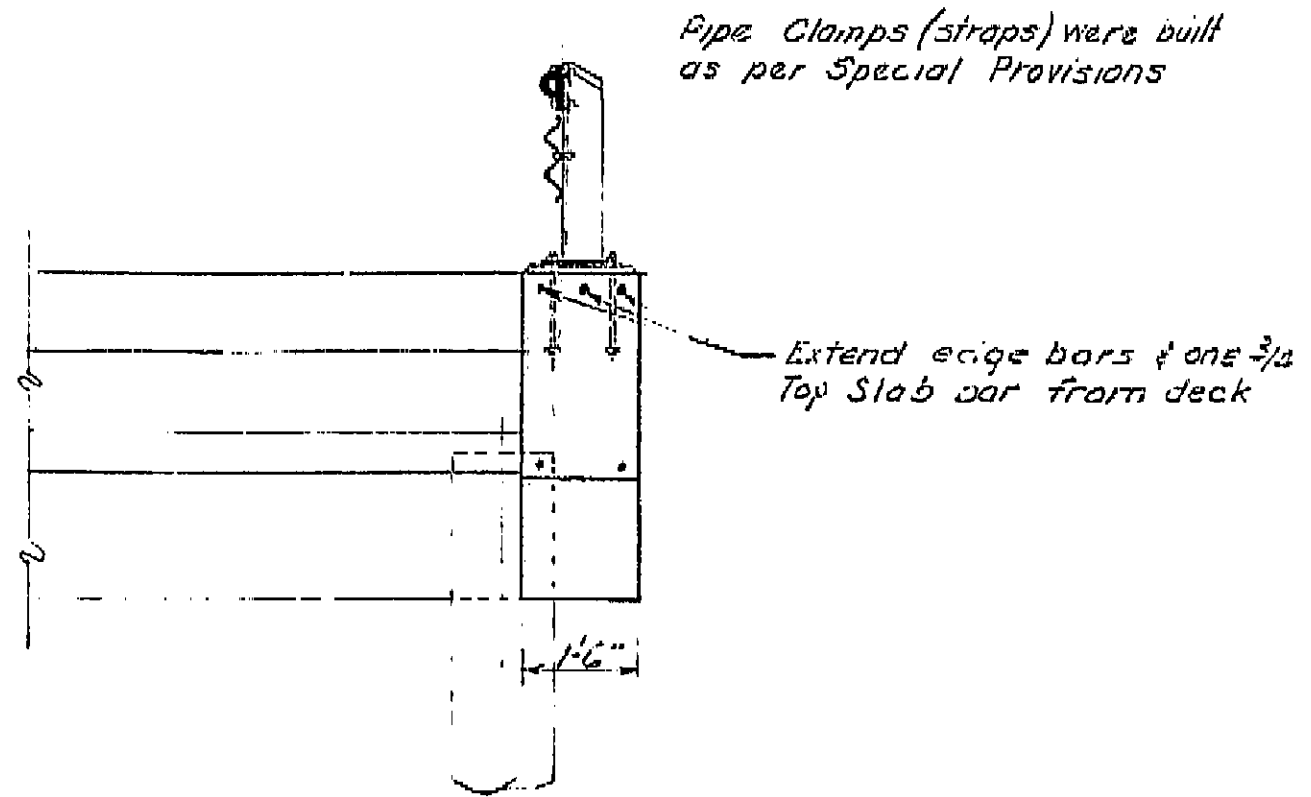
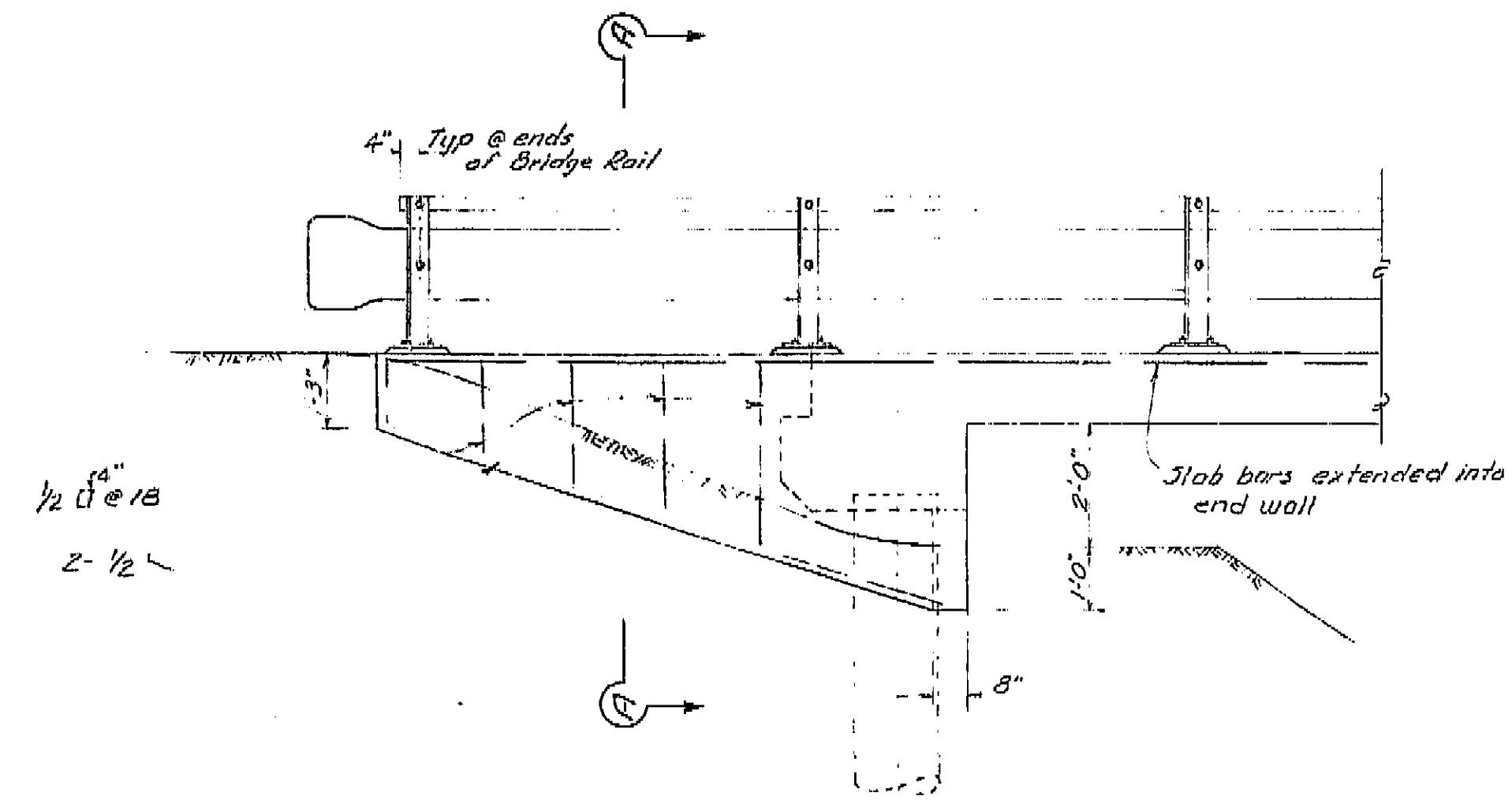
Submitted by	Checked by	Designed by	Drawn by	Quantity by	Specified by
W. J. H. H.	W. J. H. H.	W. J. H. H.	W. J. H. H.	W. J. H. H.	W. J. H. H.
DESIGN	BY	DATE	DATE	DATE	DATE
DETAILS	BY	DATE	DATE	DATE	DATE
QUANTITIES	BY	DATE	DATE	DATE	DATE
SPECIFICATIONS	BY	DATE	DATE	DATE	DATE
APPROVED	BY	DATE	DATE	DATE	DATE

DIST.	COUNTY	ROUTE	SECTION	SHEET NO.	TOTAL SHEETS
VI	Cal.	45	B	2	5
DATE APPROVED: June 22 1953					



GENERAL NOTES

- Specifications**
Design: A.M.S.M.O. dated 1949 with subsequent revisions and Bridge Department Supplement dated 1949.
- Construction:** Standard Specifications, Division of Highways, dated January 1949 and the Special Provisions.
- Live Loading:** H20-516-44
- Unit Strasses**
Reinforced Concrete: $f_c = 20,000 \text{ p.s.i.}$ $f_s = 10,000 \text{ p.s.i.}$ $n = 10$
- Pile Loading:** 32 Tons Type: R.C.C.
- Reinforcement:** Embedment is clear to outside of bar and is 2" to main reinforcement, except as noted. Hooks shall conform to the Manual of Standard Practice, A.C.I. Backing for hooks is four diameters, except as noted. Bar areas are based on rounds for less than 1" and squares for over 1". Bar deformations shall conform to ASTM A305-49. Where reinforcing bars are spliced, they shall have a 20 diameter lap unless otherwise called for on the plans.



THIS SET OF PLANS HAS BEEN CORRECTED TO CORRESPOND TO THE "AS BUILT" PRINTS DATED _____, AS SUBMITTED BY RESIDENT _____
REVISOR _____
REVISIONS CORRECTED BY: _____ DATE: _____

AS BUILT PLANS
Contract No. 54-61C8
Date Completed _____
Document No. 60001110

STATE OF CALIFORNIA DEPARTMENT OF PUBLIC WORKS DIVISION OF HIGHWAYS			
BRIDGE ACROSS EAST BRANCH CROSS CREEK			
FOUNDATION PLAN			
SCALE As Noted	BRIDGE 45-53	FILE	DRAWING 0077-2